LMA District Cover Sheet

Spring 2019 Levee Inspection Results

Reclamation District No. 2089 Stark

| | Spring (March - May) | Summer ** (June - August) | Fall (September - November) | Winter ** (December - February) |
|--|---|------------------------------|---|------------------------------------|
| † Overall LMA Rating (Fall Only) | | | | |
| | ** Non-receipt of Summ Reports may effect or | | | |
| † SPRING INSPECTIONS: Overall maintenance deficiencies are rated | ratings are not determ d using the same criter | | | ual maintenance |
| FALL INSPECTIONS: The overall maintena within the attached u | • | • | tion and maintenance de ended to be an indiction o | |
| Comments | | | | |
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Unit Cover Sheet

Spring 2019 Levee Inspection Results

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles |
|-----------------------|-------|------------|
| Unit No. 01 Old River | Right | 1.51 |

| | Spring (March - May) | Summer (June - August) | (September - November) Fall | Winter (December - February) |
|-------------------------------------|------------------------------|---------------------------|--------------------------------|---------------------------------|
| Unit Maintenance Rating (Fall Only) | | | | |
| Date of Inspection | 4/4/2019 - 4/4/2019 | | | |
| DWR Inspector | Alberto De Leon | | | |
| Accompanied By | Wade Wylie _{DWR} | | | |

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 01 Old River | Right | 1.51 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | | Rating ** | Α | Issue No. | | 4 | |
|--|-----------|----------------|----------|------------|--------|--------------|---|
| LM End | | Issue Type + | Ma | Location * | | N/A | |
| Category | Earthen L | evee | | GPS La | atituc | de/Longitude | |
| Calegory | | | | Start | | End | |
| Item | Operation | nce | | 0 | | 0 | |
| пеш | Manuals | | | | 0 | | 0 |
| DWR ID | DWR_RD2 | 089_01_s _ 201 | 3_4 | | | | |
| | | Comn | nent Cod | le | | | |
| | | | | | | | |
| | | | | | | | |
| | | Inspect | or Comm | nent | | | |
| The O&M Manual is available at the LMA's office. | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

No Photos

| LM Start | | Rating ** | Α | Issue No. | | 15 | |
|------------------------|----------------------------------|--------------|-------|------------|------------|--------------|---|
| LM End | | Issue Type + | Ma | Location * | Location * | | |
| Category Earthen Levee | | | | GPS La | atitud | le/Longitude | |
| Category | | | Start | | End | | |
| Item | | y Supplies & | | | 0 | | 0 |
| пеш | Equipmer | nt | | | 0 | | 0 |
| DWR ID | DWR ID DWR_RD2089_01_s _ 2013_15 | | | | | | |
| | Comment Code | | | | | | |
| | | | | | | | |

No Photos

Inspector Comment
The LMA has flood fighting supplies on-site.

| LM Start | | Rating ** | М | Issue No. | | 34 | | | | |
|---------------|-------------------------------|----------------|------|------------|--------|--------------|---|--|--|--|
| LM End | | Issue Type + | Ma | Location * | | N/A | | | | |
| Earthen Levee | | | | GPS La | atitud | le/Longitude | | | | |
| Category | | | | Start | | End | | | | |
| Item | Flood Preparedness & Training | | | | 0 | | 0 | | | |
| пеш | | | | | ٥ | | 0 | | | |
| DWR ID | DWR_RD2 | 089_01_s _ 201 | 3_34 | | | | | | | |
| | Comment Code | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

No Photos

| - 11 | ispe | Clui | v | UI | ıCı | • |
|------|------|------|---|----|---------|---|
| | | | | | | |

The LMA has not attended a flood fight training class in the past few years. They do have an emergency plan.

| * Location | ** Rating | | + Issue Type |
|--|--|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 01 Old River | Right | 1.51 | 04/04/2019 04/04/2019 | Alberto De Leon |

| 0.00 | Rating ** | M | Issue No. | | 9 | | | |
|-----------|----------------|---|---|--|---|--|--|--|
| 0.38 | Issue Type + | En | Location * | | LS | | | |
| Earthen L | evee | | GPS La | atitud | e/Longitude | | | |
| | | | Start | | End | | | |
| Encroachi | ments | | 37.8116 | 81 ° | 37.809755° | | | |
| | | | -121.3849 | 30° | -121.391520° | | | |
| DWR_RD2 | 089_01_s _ 201 | 2_9 | | | | | | |
| | Comn | nent Cod | le | | | | | |
| | | | | | | | | |
| | | • | | | | | | |
| | Inspecto | or Comm | nent | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | Earthen L | Earthen Levee Encroachments DWR_RD2089_01_s _ 201 Comn | Earthen Levee Encroachments DWR_RD2089_01_s _ 2012_9 Comment Coc | Earthen Levee GPS La Start Encroachments 37.8116 -121.3849 | Earthen Levee GPS Latitud Start Encroachments 37.811681 ° -121.384930 ° DWR_RD2089_01_s _ 2012_9 Comment Code | | | |



Ditch flows parallel with the utility line shown in the photo. 05/24/2011

| LM Start | 0.00 | Rating ** | U | Issue No. | | 24 | |
|--|-------------------|----------------|----------|------------|--------|---------------|--|
| LM End | 0.77 | Issue Type + | Ma | Location * | | LS | |
| Category | Earthen L | evee | | GPS La | atitud | e/Longitude | |
| Calegory | | | | Start | | End | |
| Item | Vegetatio | n | | 37.8115 | 47° | 37.808843 ° | |
| пеш | item | | | | | -121.397613 ° | |
| DWR ID | DWR_RD2 | 089_01_f _ 201 | 8_24 | | | · | |
| | | Comn | nent Cod | le | | | |
| V1 : Control annual grass and weeds on the levee slopes and easements. | | | | | | | |
| | Inspector Comment | | | | | | |
| | | | | | | | |

| LM Start | 0.00 | Rating ** | U | Issue No. | 24 (cont) |
|----------|------|--------------|----|------------|-----------|
| LM End | 0.77 | Issue Type + | Ma | Location * | LS |



Typical view of landward slope. (Fall 2018)

Photo 2 of 2 : SP_2019_RD2089_316_24_20190422_00056.jpg



Typical view of vegetation on landside slope. (Spring 2019)

| * Location | ** Rating | | + Issue Type |
|--|--|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 01 Old River | Right | 1.51 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 0.02 | Rating ** | U | Issue No. | | 16 | | |
|--------------------------|----------------------------------|---------------|----------|---------------|--------|---------------|--|--|
| LM End | 1.51 | Issue Type + | Ма | Location * | WS | | | |
| Category | Earthen L | evee | | GPS La | atitud | e/Longitude | | |
| Calegory | | | | Start | | End | | |
| Item | Vegetatio | n | | 37.8115 | 647° | 37.806633° | | |
| item | | | | -121.385268 ° | | -121.407885 ° | | |
| DWR ID | DWR ID DWR_RD2089_01_f _ 2018_16 | | | | | | | |
| | | Comn | nent Cod | de | | | | |
| V1 : Contro easements | | grass and wee | ds on th | e levee slo | pes a | and | | |
| | | Inspecto | or Comm | nent | | | | |
| | | | | | | | | |
| | | | | | | | | |
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| | - Allen | | | |
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| 100 | | | | |
| | | THE REAL PROPERTY. | | |
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| No. | 持襲 | | | |

Photo 1 of 2: SP_2019_RD2089_316_16_20190313_00014.jpg

Looking at typical view of waterward slope. (Fall 2018)

 LM Start
 0.02
 Rating **
 U
 Issue No.
 16 (cont)

 LM End
 1.51
 Issue Type +
 Ma
 Location *
 WS

Photo 2 of 2: SP_2019_RD2089_316_16_20190422_00055.jpg



Typical view of vegetation on waterside slope. (Spring 2019)

| LM Start | 0.02 | Rating ** | М | Issue No. | | 12 | | |
|------------|----------------------------------|----------------|----------|-------------|--------|---------------|--|--|
| LM End | 0.02 | Issue Type + | Ма | Location * | CR | | | |
| Category | Earthen L | evee | | GPS La | atitud | e/Longitude | | |
| Calegory | | | | Start | | End | | |
| Item | | rface / Depres | ssions / | 37.8115 | 37° | 37.811537 ° | | |
| пеш | Rutting | | | | 54° | -121.385354 ° | | |
| DWR ID | DWR ID DWR_RD2089_01_s _ 2019_12 | | | | | | | |
| | | Comn | nent Coo | le | | | | |
| C2 : Repai | r depressi | ons or ruts in | the crow | n or slope. | | | | |
| | | | | | | | | |
| | | Inspecto | or Comm | ent | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

No Photos

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 01 Old River | Right | 1.51 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 0.03 Rating ** U | | Issue No. | 18 | | |
|------------------------|---------------------------|--------------|------------|------------|---------------|--------------|
| LM End | 0.03 | Issue Type + | Ma | Location * | | LS |
| Category Earthen Levee | | | | GPS La | titud | le/Longitude |
| Calegory | | | | Start | | End |
| Trim / Thin Trees | | | | 37.81151 | 8 ° | 37.811518 ° |
| пеш | | | -121.38543 | 80° | -121.385430 ° | |
| DWR ID | DWR_RD2089_01_f _ 2018_18 | | | | | |

Comment Code

T2: Thin trees to allow visibility of the ground and room to flood fight.

Inspector Comment



Looking west at untrimmed trees on landward slope. (Fall 2018)

| LM Start | 0.03 | Rating ** | М | Issue No. | | 1 |
|------------|-----------|----------------|-----|------------|--------|---------------|
| Livi Otart | 0.00 | | | | - | |
| LM End | 0.03 | Issue Type + | Ма | Location * | LS | |
| Category | Earthen L | evee | | GPS La | atitud | le/Longitude |
| Calegory | | | | Start | | End |
| Item | Encroach | ments | | 37.8115 | 08° | 37.811508 ° |
| пеш | | | | -121.3854 | 64 ° | -121.385464 ° |
| DWR ID | DWR_RD2 | 089_01_s _ 201 | 2_1 | | | · |

Comment Code

ST : Stairway

Inspector Comment

Steps have been cut into the levee slope, this could become an erosion point, please fill and compact.

| LM Start | 0.03 | Rating ** | М | Issue No. | 1 (cont) |
|----------|------|--------------|----|------------|----------|
| LM End | 0.03 | Issue Type + | Ma | Location * | LS |

Photo 1 of 2: SP_2019_RD2089_316_1_20190313_00001.jpg



View of the stairs eroding into the landside levee slope.

Photo 2 of 2: SP_2019_RD2089_316_1_20190313_00002.jpg



View of the stairs eroding into the landside levee slope. (Fall 2018)

* Location

LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

** Rating

A: Acceptable N: Not Inspected/Rated M: Minimally Acceptable C: Corrected A/W: Acceptable but Monitor & Maintain

** Rating

A: Acceptable N: Not Inspected/Rated Ma: Maintenance Deficiency Ob: Design & System Obsolescence En: Enforcement

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 01 Old River | Right | 1.51 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 0.09 | Rating ** | М | Issue No. | | 21 | | | |
|----------------------------------|------------|-----------------|----------|-------------|--------|--------------|---|--|--|
| LM End | 0.09 | Issue Type + | Ma | Location * | | LS | | | |
| Category | Earthen L | evee | | GPS L | atitud | le/Longitude | | | |
| | | | | Start | | End | | | |
| Item | Trim / Thi | n Trees | | 37.8112 | 68° | 37.811268 | 0 | | |
| пеш | | -121.386521 ° | | -121.386521 | 0 | | | | |
| DWR ID DWR_RD2089_01_s _ 2019_21 | | | | | | | | | |
| | | Comn | nent Coc | le | | | | | |
| T1: Trim t | rees to at | least five feet | above gi | round level | | | | | |
| | | | | | | | | | |
| Inspector Comment | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

No Photos

| LM Start | 0.24 | Rating ** | М | Issue No. | | 940 |
|------------------------|-----------|----------------|-------|------------------------|------|--------------|
| LM End | 0.24 | Issue Type + | Ma | Location * | | LS |
| Category Earthen Levee | | | | GPS Latitude/Longitude | | |
| Calegory | | | | | | End |
| Item | Vegetatio | n | | 37.8104 | 12 ° | 37.810412° |
| пеш | | | | -121.3891 | 15 ° | -121.389115° |
| DWR ID | DWR_RD2 | 089_01_s _ 201 | 2_940 | | | |

Comment Code

V2 : Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

Arundo has been trimmed back from the crown but still remains as an obstruction to the slope and obstructs visibility, needs to be removed.

Photo 1 of 1: SP_2019_RD2089_316_940_20190313_00039.jpg



The LMA is actively trying to remove the vegetation on the landside levee slope and toe.

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 01 Old River | Right | 1.51 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 0.26 | Rating ** | М | Issue No. | 13 | |
|--------------|-----------|--------------------|----|------------|-------|--------------|
| LM End | 0.27 | Issue Type + | Ma | Location * | | |
| Category | Suppleme | Supplemental | | GPS La | tituc | le/Longitude |
| Calegory | | | | Start End | | |
| Item | 2017 Stor | m Damage | | 37.81030 | 00° | 37.810300° |
| item | | | | -121.38930 | 00° | -121.389500° |
| DWR ID | DWR_RD2 | 089_01_f _ 2017_13 | | | | |
| Comment Code | | | | | | |

Inspector Comment

Levee Evaluation Comments

Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.

Site ID No:513

Site Designation:LMA-419

Repair Type: Erosion Rating:Area of Concern

Field Date:8/14/2017

Notes: Small erosion at toe.

| LM Start | 0.26 | Rating ** | М | Issue No. | 13 (cont) |
|----------|------|--------------|----|------------|-----------|
| LM End | 0.27 | Issue Type + | Ma | Location * | |



Photo 2 of 2: LEVAL_SP_2019_513_4448.jpg



Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 01 Old River | Right | 1.51 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 0.30 | Rating ** | U | Issue No. | | 23 |
|----------------------------------|-----------|--------------|-----------|------------------------|---------------|-------------|
| LM End | 0.32 | Issue Type + | Ma | Location * | | LS |
| Category Earthen Levee | | | | GPS Latitude/Longitude | | |
| Calegory | | | | Start | | End |
| Item | Vegetatio | n | | 37.8101 | 38° | 37.810043 ° |
| пеш | | | -121.3900 | 20 ° | -121.390343 ° | |
| DWR ID DWR_RD2089_01_f _ 2018_23 | | | | | | |

Comment Code

V2: Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

Berryvines and wild roses on landward shoulder and slope blocking view.

Photo 1 of 1: SP_2019_RD2089_316_23_20190313_00024.jpg



Looking at dense berryvines and wild roses on landward shoulder and slope. (Fall 2018)

| LM Start | 0.32 | Rating ** | М | Issue No. | | 26 | |
|---------------|----------------------------------|--------------|--------|------------|--------------|---------------|--|
| LM End | 0.32 | Issue Type + | Ma | Location * | | LS | |
| Earthen Levee | | | GPS La | atitud | le/Longitude | | |
| Category | | | | Start | | End | |
| Item | Trim / Thi | n Trees | | 37.8100 | 30° | 37.810030 ° | |
| item | | | | -121.3904 | 76° | -121.390476 ° | |
| DWR ID | DWR ID DWR_RD2089_01_s _ 2019_26 | | | | | · | |
| | Comment Code | | | | | | |

T4: Trim trees over roadway to at least 12 feet above ground level.

Inspector Comment

No Photos

| LM Start | 0.33 | Rating ** | U | Issue No. | sue No. 19 | |
|------------------------|-----------|----------------|------|------------------------|------------|--------------|
| LM End | 0.33 | Issue Type + | Ма | Location * | | LS |
| Category Earthen Levee | | | | GPS Latitude/Longitude | | |
| Calegory | | | | Start | | End |
| Item | Vegetatio | n | | 37.8100 |)2 ° | 37.810002° |
| item | | | | -121.3906 | 74 ° | -121.390674° |
| DWR ID | DWR_RD2 | 089_01_s _ 201 | 2_19 | | | · |

Comment Code V2: Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

Arundo needs to be maintained so that it does not obstruct visibility and access to the landside toe.

Photo 1 of 2: SP_2019_RD2089_316_19_20190313_00018.jpg



View of the arundo back on the landside levee slope. Fall 2016

| * Location | ** Rating | | + Issue Type |
|--|--|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 01 Old River | Right | 1.51 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 0.33 | Rating ** | U | Issue No. | | 19 (cont) | |
|------------------------|-----------|----------------|------|------------------------|-----|-------------|--|
| LM End | 0.33 | Issue Type + | Ma | Location * | | LS | |
| Category Earthen Levee | | | | GPS Latitude/Longitude | | | |
| Calegory | | | | | | End | |
| Item | Vegetatio | n | | 37.81000 | 2 ° | 37.810002 | |
| пеш | | | | -121.39067 | 4 ° | -121.390674 | |
| DWR ID | DWR_RD2 | 089_01_s _ 201 | 2_19 | | | | |

Comment Code

V2: Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

Arundo needs to be maintained so that it does not obstruct visibility and access to the landside toe.

Photo 2 of 2: SP_2019_RD2089_316_19_20190313_00019.jpg



View of trimmed arundo. Spring 2016

Photo 1 of 2: SP_2019_RD2089_316_28_20190313_00027.jpg

| LM Start | 0.41 | Rating ** | U | Issue No. | | 28 |
|-------------------------|-----------|--------------|------|------------------------|------|---------------|
| LM End | 0.46 | Issue Type + | Ma | Location * | | LS |
| Catagoria Earthen Levee | | | | GPS Latitude/Longitude | | |
| Category | | | | Start | | End |
| Item | Vegetatio | n | | 37.8095 | 93 ° | 37.809507 ° |
| пеш | | | | -121.3919 | 63 ° | -121.392907 ° |
| DWR ID | DWR RD2 | 089 01 s 201 | 2 28 | | | |

| ion - | -121.391963 ° | -121.392907° | | |
|--|--------------------|--------------|------------------------|--------------------------------|
| DWR_RD2089_01_s _ 2012_28 | | | | (1) 支工作。 |
| Comment C | ode | | 1 | |
| ?: Remove the wild growth other than opes. | native grasses fro | m the levee | | |
| Inspector Con | nment | | | |
| egetation is too thick to allow access a tches of shrubs remain and continue t | | | | |
| | | | Photo shows thick dead | vegetation and continuation of |

| LM Start | 0.41 | Rating ** | U | Issue No. | 28 (cont) |
|----------|------|--------------|----|------------|-----------|
| LM End | 0.46 | Issue Type + | Ma | Location * | LS |



of trees in area. 5/24/2011

Photo 2 of 2: SP_2019_RD2089_316_28_20190313_00028.jpg



Looking at dense veg on landward slope. (Fall 2018)

| * Location | ** Rating | | + Issue Type |
|--|--|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 01 Old River | Right | 1.51 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 0.46 | Rating ** | М | Issue No. | | 941 | | | |
|----------|--------------|----------------------|----|------------|----|------------------------|--|--|--|
| LM End | 0.46 | Issue Type + | En | Location * | | | | | |
| Category | Supplemental | | | | | GPS Latitude/Longitude | | | |
| Calegory | Calegory | | | | | End | | | |
| Itom | DWR UC | DWR UCIP Field Study | | | 1° | 37.809501 ° | | | |
| пеш | Item | | | -121.39279 | 8° | -121.392798 ° | | | |
| DWR ID | 23042 | | | | | | | | |

Comment Code

Inspector Comment

FS_ID:21635 DS_ID:23042 EP_NO: 5641

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: - damaged siphon breaker.- most of the pipe on

landside exposed on levee slope.

FIELD_STRUCT_DESC: 20-inch steel irrigation discharge pipe and electrical conduit through the levee, 5.8 feet below the crown. Pump on a pile structure in the stream. Siphon breaker on the landside (LS) slope. (Plans to replace a rusted out irrigation discharge pipe through the levee authorized under Permit No. 5641, 1967 - Theodore Stark). [Additional Reference(s): DWR Levee Log, 1991. USACE San Joaquin O&M Manual 8, 1968, (HLM 0.46), 21-inch pipe referenced].

FS Date: 9/12/2013

| LM Start | 0.46 | Rating ** | М | Issue No. | 941 (cont) |
|----------|------|--------------|----|------------|------------|
| LM End | 0.46 | Issue Type + | En | Location * | |

Photo 1 of 3: UCIP_SP_2019_21635_36742.jpg



WS view: walkway to pump platform and pump on steel piling structure in the channel.

Photo 2 of 3: UCIP_SP_2019_21635_36741.jpg



WS view: steel walkway, electric control box, and pump on steel piling structure in the channel.

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 01 Old River | Right | 1.51 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 0.46 | Rating ** | М | Issue No. | | 941 (cont) | | |
|----------|-----------------------|----------------------|------------|------------|------------------------|-------------|--|--|
| LM End | 0.46 | Issue Type + | En | Location * | | | | |
| Catagony | Category Supplemental | | | | GPS Latitude/Longitude | | | |
| Calegory | | | | | | End | | |
| Item | DWR UC | DWR UCIP Field Study | | | 1° | 37.809501 ° | | |
| item | | | -121.39279 | 8° | -121.392798 ° | | | |
| DWR ID | 23042 | | | | | | | |

Comment Code

Inspector Comment

FS_ID:21635 DS_ID:23042 EP NO: 5641

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: - damaged siphon breaker.- most of the pipe on

landside exposed on levee slope.

FIELD_STRUCT_DESC: 20-inch steel irrigation discharge pipe and electrical conduit through the levee, 5.8 feet below the crown. Pump on a pile structure in the stream. Siphon breaker on the landside (LS) slope. (Plans to replace a rusted out irrigation discharge pipe through the levee authorized under Permit No. 5641, 1967 - Theodore Stark). [Additional Reference(s): DWR Levee Log, 1991. USACE San Joaquin

O&M Manual 8, 1968, (HLM 0.46), 21-inch pipe referenced].

FS Date: 9/12/2013



LS view: overview of exposed steel pipe (right) on levee slope and service pole (left).

| LM Start | 0.54 | Rating ** | М | Issue No. | | 14 | |
|----------------------------------|-------------------------------|--------------|-------|------------------------|-----|---------------|--|
| LM End | 0.54 | Issue Type + | Ma | Location * | CR | | |
| Category Earthen Levee | | | | GPS Latitude/Longitude | | | |
| Calegory | | | Start | | End | | |
| l+om | Crown Surface / Depressions / | | | 37.81008 | 37° | 37.810087 ° | |
| пеш | Rutting | | | | | -121.394200 ° | |
| DWR ID DWR_RD2089_01_s _ 2012_14 | | | | | | | |
| Comment Code | | | | | | | |

C3 : Add appropriate gravel or road base. Grade and compact.

Inspector Comment

Minor depressions will cause ponding

Photo 1 of 1: SP_2019_RD2089_316_14_20190313_00013.jpg



11/10/2011 Depressions in crown.

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 01 Old River | Right | 1.51 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 0.67 | Rating ** | A/W | Issue No. | | 5 |
|----------|----------|--------------------|-----|------------|-------|---------------|
| LM End | 0.67 | Issue Type + Ma | | Location * | WS | |
| Category | Suppleme | ental | | GPS La | titud | le/Longitude |
| Calegory | Category | | | | | End |
| Item | DWR Ero | DWR Erosion Survey | | | 80° | 37.809780 ° |
| пеш | | | | -121.3962 | 30° | -121.396230 ° |
| DWR ID | RD2089U0 | 1RM29.61 | | | | |

Inspector Comment

Comment Code

09/13/2017: No significant change observed.

07/25/2016: No significant change observed.

06/25/2015: No significant change observed.

07/02/2014: No significant change observed.

08/13/2013: No significant change observed.

08/07/2012: The site has been visited by boat survey. No significant change observed

08/23/2011: The 5-foot vertical scarp shows no significant change from the last year inspection. No new erosion activities observed. Dense white willow trees on site.

09/07/2010: It was difficult to view the erosion due to the thick Willow thickets and other vegetation at the water line. At the time of the inspection, there were no signs of repair on site. As noted during the last survey, there is a 5-foot vertical scarp along the lower slope that may be subjected to high flow velocities.

08/05/2010: Recommended for repair, per CLRO; "Erosion of this site may be subjective to rapid rates of erosion."

09/28/2009: No major change observed; 5-foot vertical scarp is immediately downstream of where berm has tapered; site is recommended as local maintenance issue, per CLRO CES Evaluation 2008 Report; Site # is the same as RM29.6, LM0.60; previously rated

11/05/2008: No change observed; rodent holes on lower slope; wide levee crown. [2017 Site ID:RD2089U01RM29.61]

| LM Start | 0.67 | Rating ** | A/W | Issue No. | 5 (cont) |
|----------|------|--------------|-----|------------|----------|
| LM End | 0.67 | Issue Type + | Ma | Location * | WS |

Photo 1 of 2: SP_2019_RD2089_316_5_20190313_00008.jpg



Front view of the site. The scarp erosion is at the levee slope but is not visible due to the dense begetation at the site.

Photo 2 of 2: SP_2019_RD2089_316_5_20190313_00009.jpg



Front view of the site. Note the very dense white willow thickets on site.

Location Rating Issue Type LS: Land Side N/A: Not Applicable Ma: Maintenance Deficiency N: Not Inspected/Rated A : Acceptable Minimally Acceptable Ob : Design & System Obsolescence WS: Water Side C: Corrected En: Enforcement CR: Crown U: Unacceptable A/W: Acceptable but Monitor & Maintain

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 01 Old River | Right | 1.51 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 0.67 | Rating ** | A/W | Issue No. | Issue No. | |
|----------------------------------|-----------|--------------|-----|------------------------|-----------|---------------|
| LM End | 0.68 | Issue Type + | Ma | Location * | | |
| Supplemental Supplemental | | | | GPS Latitude/Longitude | | |
| Calegory | | | | Start | | End |
| Item | 2017 Stor | m Damage | | 37.80970 | 0° | 37.809700° |
| Item | | | | -121.39630 | 0 ° | -121.396400 ° |
| DWR ID DWR_RD2089_01_f _ 2017_20 | | | | | | |

Inspector Comment

Comment Code

Levee Evaluation Comments

Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.

Site ID No:512

Site Designation:LMA-418

Repair Type: Erosion

Rating:Serious Field Date:8/14/2017

Notes: deep erosion more than half way up slope.

| LM Start | 0.67 | Rating ** | A/W | Issue No. | 20 (cont) |
|----------|------|--------------|-----|------------|-----------|
| LM End | 0.68 | Issue Type + | Ma | Location * | |

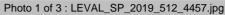




Photo 2 of 3: LEVAL_SP_2019_512_4458.jpg



Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 01 Old River | Right | 1.51 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 0.67 | Rating ** | A/W | Issue No. | 20 (cont) | | | |
|----------------------------------|--------------|--------------|------------|------------------------|--------------|------------|--|--|
| LM End | 0.68 | Issue Type + | Ma | Location * | | | | |
| Supplemental | | | | GPS Latitude/Longitude | | | | |
| Category | | | Start | | End | | | |
| Item | 2017 Stor | m Damage | | 37.80970 | 00° | 37.809700° | | |
| пеш | | | -121.39630 | 00° | -121.396400° | | | |
| DWR ID DWR_RD2089_01_f _ 2017_20 | | | | | | | | |
| | Comment Code | | | | | | | |

Inspector Comment

Levee Evaluation Comments

Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.

Site ID No:512

Site Designation:LMA-418 Repair Type: Erosion

Rating:Serious Field Date:8/14/2017

Notes: deep erosion more than half way up slope.



| LM Start | 0.80 | Rating ** | М | Issue No. | 22 | | |
|----------------------------------|-----------|--------------|----|------------------------|------|--------------|--|
| LM End | 0.80 | Issue Type + | Ma | Location * | LS | | |
| Category Earthen Levee | | | | GPS Latitude/Longitude | | | |
| | | | | Start | | End | |
| Item | Slope Sta | bility | | 37.8084 | 66° | 37.808466 ° | |
| item | | | | -121.3978 | 47 ° | -121.397847° | |
| DWR ID DWR_RD2089_01_f _ 2016_22 | | | | | | | |
| Comment Code | | | | | | | |

S2: Repair the levee slope damaged by foot traffic and prevent access where possible.

Inspector Comment

Photo 1 of 1: SP_2019_RD2089_316_22_20190313_00023.jpg



View of the footpath on the landside levee slope.

| * Location | ** Rating | | + Issue Type |
|-----------------------------------|--------------------------|---|-----------------------------------|
| LS: Land Side N/A: Not Applicable | A : Acceptable | N : Not Inspected/Rated | Ma : Maintenance Deficiency |
| WS: Water Side | M : Minimally Acceptable | C : Corrected | Ob : Design & System Obsolescence |
| CR : Crown | U : Unacceptable | A/W : Acceptable but Monitor & Maintain | En: Enforcement |

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 01 Old River | Right | 1.51 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 0.80 | Rating ** | М | Issue No. | | 942 |
|----------|---------|------------------------|----|------------|------|---------------|
| LM End | 0.80 | Issue Type + | En | Location * | | |
| Category | ental | GPS Latitude/Longitude | | | | |
| Calegory | | | | Start | | End |
| Item | DWR UCI | IP Field Study | | 37.8083 | 87° | 37.808387° |
| item | item | | | -121.3978 | 43 ° | -121.397843 ° |
| DWR ID | 23043 | | | | | |

Comment Code Inspector Comment

FS_ID:21587 DS_ID:23043 EP_NO: 3385

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: - powerline on landside.- electric control box on waterside.- waterside slope erosion under pump platform.

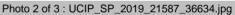
FIELD_STRUCT_DESC: 16-inch irrigation discharge pipe of an unknown material through the levee, 5.5 feet below the crown. Two cutoff walls. Slant pump in a pump house on the waterside (WS) slope. Siphon breaker on the landside (LS) slope. (Plans for installation of a pumping plant on the riverbank and a pipe that crosses the levee authorized under Permit No. 3385, 1960 - Eleanor M. Lawrence). [Additional Reference(s): DWR Levee Log, 1991. USACE San Joaquin O&M Manual 8, 1968, (HLM 0.81)].

FS Date: 9/12/2013

| LM Start | 0.80 | Rating ** | М | Issue No. | 942 (cont) |
|----------|------|--------------|----|------------|------------|
| LM End | 0.80 | Issue Type + | En | Location * | |



WS view: slant pump on wooden platform. Oil leaks from the pump.





WS view: soil erosion under pump platform. Needs mitigation measures to stop erosion.

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 01 Old River | Right | 1.51 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 0.80 | Rating ** | М | Issue No. | | 942 (cont) |
|-----------------------|--------|----------------|----|------------------------|----|---------------|
| LM End | 0.80 | Issue Type + | En | Location * | | |
| Category Supplemental | | | | GPS Latitude/Longitude | | |
| Calegory | | | | Start | | End |
| Item | DWR UC | IP Field Study | | 37.80838 | 7° | 37.808387° |
| пеш | | | | -121.39784 | 3° | -121.397843 ° |
| DWR ID | 23043 | | | | | |

Comment Code

Inspector Comment

FS_ID:21587 DS_ID:23043 EP_NO: 3385

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: - powerline on landside.- electric control box on waterside.- waterside slope erosion under pump platform.
FIELD_STRUCT_DESC: 16-inch irrigation discharge pipe of an unknown material through the levee, 5.5 feet below the crown. Two cutoff walls. Slant pump in a pump house on the waterside (WS) slope. Siphon breaker on the landside (LS) slope. (Plans for installation of a pumping plant on the riverbank and a pipe that crosses the levee authorized under Permit No. 3385, 1960 - Eleanor M. Lawrence). [Additional Reference(s): DWR Levee Log, 1991. USACE San Joaquin O&M Manual 8, 1968, (HLM 0.81)].

FS Date: 9/12/2013



LS view: exposed pipe with siphon breaker on levee slope. Concrete standpipe on levee toe.

| LM Start | 0.81 | Rating ** | U | Issue No. | | 17 |
|----------|---------------------------|-----------------|------------------------|------------|------|--------------|
| LM End | 0.94 | Issue Type + En | | Location * | | LS |
| Category | Earthen L | | GPS Latitude/Longitude | | | |
| Category | | | | | | End |
| Item | Encroach | croachments | | | 19° | 37.806453 ° |
| пеш | | | | | 81 ° | -121.397755° |
| DWR ID | DWR_RD2089_01_f _ 2014_17 | | | | | |

Comment Code

AT : Agricultural tilling

Inspector Comment

The landside levee toe is cut due to farming.

Photo 1 of 2: SP_2019_RD2089_316_17_20190313_00015.jpg



View of the vertical cut along the landside levee toe.

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 01 Old River | Right | 1.51 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 0.81 | Rating ** | U | Issue No. | sue No. 17 (cont) | | |
|----------------------------------|--------------|------------------------|-------|------------|-------------------|---------------|--|
| LM End | 0.94 | Issue Type + | En | Location * | LS | | |
| Category | evee | GPS Latitude/Longitude | | | | | |
| Calegory | | | Start | | End | | |
| Item | Encroach | ments | | 37.8083 | 19° | 37.806453 ° | |
| пеш | | | | -121.3978 | 81 ° | -121.397755 ° | |
| DWR ID DWR_RD2089_01_f _ 2014_17 | | | | | | | |
| | Comment Code | | | | | | |

AT : Agricultural tilling

Inspector Comment

The landside levee toe is cut due to farming.

Photo 2 of 2 : SP_2019_RD2089_316_17_20190313_00016.jpg



View of vertical cut along the landward toe. (Fall 2018)

| LM Start | 0.83 | Rating ** | U | Issue No. | | 27 |
|----------|---------------|--------------|------|------------------------|------|--------------|
| LM End | 1.51 | Issue Type + | Ma | Location * | | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | | |
| Calegory | | | | | | End |
| Item | Vegetatio | Vegetation | | | 91 ° | 37.806638° |
| item | | | | -121.3978 | 47 ° | -121.407833° |
| DWR ID | DWR RD2 | 089 01 s 201 | 9 27 | | | |

Comment Code

V2 : Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

Vegetation on landside toe needs to be maintained to allow access and visibility.

Photo 1 of 1: SP_2019_RD2089_316_27_20190422_00057.jpg



View of vegetation on landside slope. (spring 2019)

| LM Start | 0.94 | Rating ** | U | Issue No. | 33 | | |
|----------|---------------|----------------|----------|------------------------|------------|---------------|--|
| LM End | 0.94 | Issue Type + | Ма | Location * | WS | | |
| Category | Earthen Levee | | | GPS Latitude/Longitude | | | |
| Calegory | | | Start | | End | | |
| Item | Vegetatio | n | 37.80639 | 7 ° | 37.806397° | | |
| item | | | | -121.397758 | 3° | -121.397758 ° | |
| DWR ID | DWR_RD2 | 089_01_s _ 201 | 2_33 | | | | |

Comment Code

V2 : Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

Arundo on waterside impedes visibility and access to waterside slope.

Photo 1 of 2: SP_2019_RD2089_316_33_20190313_00032.jpg



Re-establishing of Arundo on waterward slope. (Fall 2018)

| * Location | ** Rating | | + Issue Type |
|--|--|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 01 Old River | Right | 1.51 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 0.94 | Rating ** | U | Issue No. | | 33 (cont) |
|----------|---------------------------|------------------------|----|------------|----|---------------|
| LM End | 0.94 | Issue Type + | Ma | Location * | | WS |
| Category | Earthen L | GPS Latitude/Longitude | | | | |
| Calegory | | | | Start | | End |
| Item | Vegetatio | n | 1 | | | 37.806397 ° |
| пеш | | | | -121.39775 | 3° | -121.397758 ° |
| DWR ID | DWR_RD2089_01_s _ 2012_33 | | | | | |

Comment Code

V2 : Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

Arundo on waterside impedes visibility and access to waterside slope.

Photo 2 of 2: SP_2019_RD2089_316_33_20190313_00033.jpg



View of when Arundo was trimmed back. Spring 2016

| LM Start | 1.16 | Rating ** | A/W | Issue No. | | 30 |
|----------|--------------|----------------|------------|------------------------|-------------|---------------|
| LM End | 1.18 | Issue Type + | Location * | | WS | |
| Category | Supplemental | | | GPS Latitude/Longitude | | |
| Calegory | | | Start | | End | |
| Item | 2017 Stor | m Damage | 37.8056 | 00° | 37.805600 ° | |
| пеш | | | | -121.4017 | 00 ° | -121.401900 ° |
| DWR ID | DWR_RD2 | 089_01_f _ 201 | 7_30 | | | |

Inspector Comment

Comment Code

Levee Evaluation Comments

Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.

Site ID No:511

Site Designation:LMA-417

Repair Type: Erosion

Rating:Critical

Field Date:8/16/2017

Notes: Narrow levee with over steep slope



Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 01 Old River | Right | 1.51 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 1.16 | Rating ** | A/W | Issue No. | | 30 (cont) |
|----------|---------------------------|-----------------|------------|------------------------|---------------|------------|
| LM End | 1.18 | Issue Type + Ma | | Location * | | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | | |
| Calegory | | | | | | End |
| Item | 2017 Stor | m Damage | | 37.80560 | o° | 37.805600° |
| пеш | | | -121.40170 | o° | -121.401900 ° | |
| DWR ID | DWR_RD2089_01_f _ 2017_30 | | | | | |

Inspector Comment

Comment Code

Levee Evaluation Comments

Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.

Site ID No:511

Site Designation:LMA-417

Repair Type: Erosion

Rating:Critical Field Date:8/16/2017

Notes: Narrow levee with over steep slope

| LM Start | 1.16 | Rating ** | A/W | Issue No. | 30 (cont) |
|----------|------|--------------|-----|------------|-----------|
| LM End | 1.18 | Issue Type + | Ma | Location * | WS |





Photo 3 of 3: LEVAL_SP_2019_511_4305.jpg



Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 01 Old River | Right | 1.51 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 1.17 | Rating ** | A/W | Issue No. | | 3 | |
|------------------------|------------------------|--------------|-----|-------------|----|-----------|---|
| LM End | 1.17 | Issue Type + | Ma | Location * | WS | | |
| Category | GPS Latitude/Longitude | | | | | | |
| Category | | | | Start | | End | |
| Item | DWR Ero | sion Survey | | 37.80552 | 3° | 37.805523 | ٥ |
| item | | -121.40171 | 8° | -121.401718 | ٥ | | |
| DWR ID RD2089U01RM29.1 | | | | | | | |

Comment Code

Inspector Comment

09/13/2017: The erosion is at the upstream of a small tree, inside of a slight river bend. [2017 Site ID:RD2089U01RM29.1]

| LM Start | 1.17 | Rating ** | A/W | Issue No. | 3 (cont) |
|----------|------|--------------|-----|------------|----------|
| LM End | 1.17 | Issue Type + | Ma | Location * | WS |



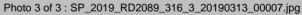
Front view of the erosion. Note the trees next to the erosion site.

Photo 2 of 3: SP_2019_RD2089_316_3_20190313_00006.jpg



Front view of the erosion.

| LM Start | 1.17 | Rating ** | A/W | Issue No. | 3 (cont) |
|----------|------|--------------|-----|------------|----------|
| LM End | 1.17 | Issue Type + | Ма | Location * | WS |





Front view of the erosion.

| * Location | ** Rating | | + Issue Type |
|--|--|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 01 Old River | Right | 1.51 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 1.19 | Rating ** | М | Issue No. | | 25 |
|----------------------------------|------------|------------------------|------------|------------|---------------|-------------|
| LM End | 1.19 | Issue Type + | Ma | Location * | WS | |
| Category | evee | GPS Latitude/Longitude | | | | |
| Calegory | | | | Start | | End |
| Item | Vegetation | | | 37.80566 | 3° | 37.805663 ° |
| пеш | | | -121.40215 | 51 ° | -121.402151 ° | |
| DWR ID DWR_RD2089_01_s _ 2016_25 | | | | | | |

Comment Code

V2 : Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

Arrundo was trimmed back but may creep up the waterside levee slope if not maintained.

Photo 1 of 1 : SP_2019_RD2089_316_25_20190313_00026.jpg



View of the Arundo on the waterside slope obstructing visibility. LMA is actively trying to remove the wild growth.

| LM Start | 1.22 | Rating ** | М | Issue No. | 43 | | | |
|----------------------------------|---------|----------------|----------|------------------------|-----|--------------|--|--|
| LM End | 1.22 | Issue Type + | Ma | Location * | CR | | | |
| Category Earthen Levee | | | | GPS Latitude/Longitude | | | | |
| | | | | Start | | End | | |
| Item | | rface / Depres | ssions / | 37.80573 | 35° | 37.805735° | | |
| пеш | Rutting | | | -121.4026 | 14° | -121.402614° | | |
| DWR ID DWR_RD2089_01_s _ 2012_43 | | | | | | | | |
| Comment Code | | | | | | | | |

C3 : Add appropriate gravel or road base. Grade and compact.

Inspector Comment

Depression needs to be filled.

Photo 1 of 1: SP_2019_RD2089_316_43_20190313_00034.jpg



View of depression in roadway. 11/10/2011

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 01 Old River | Right | 1.51 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 1.23 | Rating ** | М | Issue No. | | 2 | |
|-------------------------|---------|------------------------|----|---------------|--|---------------|--|
| LM End | 1.24 | Issue Type + | Ma | Location * | | WS | |
| Category | ental | GPS Latitude/Longitude | | | | | |
| Calegory | | | | | | End | |
| Item | DWR Ero | sion Survey | | 37.805580° | | 37.805580 ° | |
| пеш | | | | -121.403010 ° | | -121.403010 ° | |
| DWR ID RD2089U01RM29.04 | | | | | | | |
| Comment Code | | | | | | | |

Inspector Comment

09/13/2017: No significant change observed. More vegetation observed at the site.

09/16/2016: The river was not navigable near the site due to the dense water grass, so the site was visited by land survey. No significant change observed.

06/25/2015: No significant change observed.

07/02/2014: No significant change observed.

08/13/2013: The erosion is around a tree at the levee toe. Dense vegetation is visible. [2017 Site ID:RD2089U01RM29.04]

| LM Start | 1.23 | Rating ** | М | Issue No. | 2 (cont) |
|----------|------|--------------|----|------------|----------|
| LM End | 1.24 | Issue Type + | Ma | Location * | WS |

Photo 1 of 2 : SP_2019_RD2089_316_2_20190313_00003.jpg



Front view of the erosion.

Photo 2 of 2: SP_2019_RD2089_316_2_20190313_00004.jpg



Close view of the erosion.

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 01 Old River | Right | 1.51 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 1.23 | Rating ** | М | Issue No. | 44 | |
|--|----------------------------------|--------------|-------|------------|-------|---------------|
| LM End | 1.23 | Issue Type + | Ма | Location * | LS | |
| Category Earthen Levee | | | | GPS La | tituc | le/Longitude |
| Calegory | | | Start | | End | |
| Item | Crown Surface / Depressions / | | | 37.80580 |)1 ° | 37.805801 ° |
| пеш | Rutting | | | -121.40291 | 3° | -121.402913 ° |
| DWR ID | DWR ID DWR_RD2089_01_s _ 2012_44 | | | | | |
| | Comment Code | | | | | |
| OO Add an annicate manual an anadh ann One de and an annicat | | | | | | |

C3 : Add appropriate gravel or road base. Grade and compact.

Inspector Comment

Depression in roadway needs to be filled.

Photo 1 of 1: SP_2019_RD2089_316_44_20190313_00035.jpg



View of roadway depression. 11/10/2011

| LM Start | 1.34 | Rating ** | М | Issue No. | | 45 |
|----------|---------------------------|----------------|----------|------------|-------------|---------------|
| LM End | 1.34 | Issue Type + | Ma | Location * | | CR |
| Category | Earthen L | | GPS La | atitud | e/Longitude | |
| Calegory | | | | Start | | End |
| Item | | rface / Depres | ssions / | 37.8061 | 28° | 37.806128° |
| пеш | Rutting | | | -121.4048 | 90° | -121.404890 ° |
| DWR ID | DWR_RD2089_01_s _ 2012_45 | | | | | |

Comment Code

C3 : Add appropriate gravel or road base. Grade and compact.

Inspector Comment

Depression needs to be filled.

Photo 1 of 1: SP_2019_RD2089_316_45_20190313_00036.jpg



View of roadway depression. 11/10/2011

| LM Start | 1.40 | Rating ** | M | Issue No. | | 47 | |
|----------|----------------|--------------|------|------------|------------------------|-------------|---|
| LM End | 1.40 | Issue Type + | Ma | Location * | LS | | |
| Category | Earthen Levee | | | | GPS Latitude/Longitude | | |
| Calegory | | | | Start | | End | |
| Item | Animal Control | | | 37.8062 | 68° | 37.806268 | 0 |
| пеш | | | | -121.4058 | 74 ° | -121.405874 | 0 |
| DWR ID | DWR RD2 | 089 01 s 201 | 2 47 | | | | |

Comment Code

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

No rodents visible, but active burrows are present.

Photo 1 of 1: SP_2019_RD2089_316_47_20190313_00037.jpg



View of active rodent burrow on landside slope. 11/10/2011

| * Location | ** Rating | | + Issue Type |
|--|--|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 01 Old River | Right | 1.51 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 1.41 | Rating ** M | | Issue No. | | 943 | | |
|----------|----------------------|--------------|----|------------|----|------------------------|--|--|
| LM End | 1.41 | Issue Type + | En | Location * | | | | |
| Category | Supplemental | | | | | GPS Latitude/Longitude | | |
| Calegory | | | | Start | | End | | |
| Item | DWR UCIP Field Study | | | 37.80632 | 3° | 37.806323 | | |
| пеш | | | | -121.40614 | 9° | -121.406149 ° | | |
| DWR ID | 24667 | | | | | | | |

Comment Code

Inspector Comment

FS_ID:53379 DS_ID:24667 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/12/2018 Same as last inspection. Down grading to Non-Urgent due to abandonment and no visual threat to pipe or levee integrity (D. Sanoski - DWR UCIP).11/15/2016 Same as last inspection. (K. Fazel - UCIP)09/12/2013:- if abandoned, it needs proper abandonment. Pipe damaged and open on both ends. (P. Amatya - DWR)

FIELD_STRUCT_DESC: *ABANDONED* 6-inch polyvinyl chloride (PVC) irrigation discharge pipe through the levee, 2 feet below the crown. Pipe was installed due to pump failure, but never removed. Field study discovered pipe.

FS Date: 10/12/2018 5:16:00 PM

| LM Start | 1.41 | Rating ** | М | Issue No. | 943 (cont) |
|----------|------|--------------|----|------------|------------|
| LM End | 1.41 | Issue Type + | En | Location * | |





WS view: 6-inch pvc pipe on levee slope. Pipe end open and damaged.

Photo 2 of 3: UCIP_SP_2019_53379_36610.jpg



WS view: inside view of pvc pipe. Sediments found inside the pipe.

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 01 Old River | Right | 1.51 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 1.41 | Rating ** | М | Issue No. | (| 943 (cont) | | |
|----------|----------------------|--------------|----|------------|-----|------------------------|--|--|
| LM End | 1.41 | Issue Type + | En | Location * | | | | |
| Catagony | Supplemental | | | | | GPS Latitude/Longitude | | |
| Calegory | | | | Start | | End | | |
| Item | DWR UCIP Field Study | | | 37.80632 | 3° | 37.806323 ° | | |
| пеш | | | | -121.40614 | .9° | -121.406149° | | |
| DWR ID | 24667 | | | | | | | |

Comment Code

Inspector Comment

FS_ID:53379 DS_ID:24667 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/12/2018 Same as last inspection. Down grading to Non-Urgent due to abandonment and no visual threat to pipe or levee integrity (D. Sanoski - DWR UCIP).11/15/2016 Same as last inspection. (K. Fazel - UCIP)09/12/2013:- if abandoned, it needs proper abandonment. Pipe damaged and open on both ends. (P. Amatya - DWR)

FIELD_STRUCT_DESC: *ABANDONED* 6-inch polyvinyl chloride (PVC) irrigation discharge pipe through the levee, 2 feet below the crown. Pipe was installed due to pump failure, but never removed. Field study discovered pipe.

FS Date: 10/12/2018 5:16:00 PM

Photo 3 of 3 : UCIP_SP_2019_53379_36609.jpg

LS view: 6-inch pvc pipe on levee slope. Pipe end open.

| LM Start | 1.41 | Rating ** | М | Issue No. | | 944 | |
|----------|-----------------------------|------------------------|----|------------|-----|---------------|--|
| LM End | 1.41 | Issue Type + | Ма | Location * | | | |
| Category | Suppleme | GPS Latitude/Longitude | | | | | |
| Category | | | | Start | | End | |
| Item | DWR UCIP LMA Responsibility | | | 37.80632 | 23° | 37.806323° | |
| item | | | | -121.40615 | 5 ° | -121.406155 ° | |
| DWR ID | 23045 | | | | | | |

Inspector Comment

Comment Code

FS_ID:21585 DS_ID:23045 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: - siphon breaker needs repair.

FIELD_STRUCT_DESC: 10-inch steel drainage discharge pipe through the levee, 2.4 feet below the crown. Pump in a drainage ditch on the landside (LS). Siphon breaker on the waterside (WS) shoulder.

[Additional Reference(s): DWR Levee Log, 1991].

FS Date: 9/12/2013

| Photo 1 | of 3: | UCIP_ | _SP_ | _2019_ | _21585_ | _36624.jpg |
|---------|-------|---------------------------------|--------------------|--------|---------|--|
| 6.0 | | THE RESERVE THE PERSON NAMED IN | V Contract Name of | NO. | | A CONTRACTOR OF THE PARTY OF TH |



WS view: exposed steel pipe on levee slope. A pvc pipe on left.

| * Location | ** Rating | | + Issue Type |
|--|--|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 01 Old River | Right | 1.51 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 1.41 | Rating ** | М | Issue No. | | 944 (cont) | | |
|--------------|--------------|--------------|------------------------|------------|-----|-------------|--|--|
| LM End | 1.41 | Issue Type + | Ма | Location * | | | | |
| Supplemental | | | GPS Latitude/Longitude | | | | | |
| Calegory | gory | | | Start | | End | | |
| Item | DWR UC | IP LMA Respo | nsibility | 37.80632 | 23° | 37.806323 | | |
| пеш | | | | -121.40615 | 55° | -121.406155 | | |
| DWR ID | DWR ID 23045 | | | | | | | |
| | Comment Code | | | | | | | |

Inspector Comment

FS_ID:21585 DS_ID:23045 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: - siphon breaker needs repair.

FIELD_STRUCT_DESC: 10-inch steel drainage discharge pipe through the levee, 2.4 feet below the crown. Pump in a drainage ditch on the landside (LS). Siphon breaker on the waterside (WS) shoulder.

[Additional Reference(s): DWR Levee Log, 1991].

FS Date: 9/12/2013

| LM Start | 1.41 | Rating ** | M | Issue No. | 944 (cont) |
|----------|------|--------------|----|------------|------------|
| LM End | 1 41 | Issue Type + | Ma | Location * | |

Photo 2 of 3: UCIP_SP_2019_21585_36623.jpg



WS view: exposed steel pipe with siphon breaker. Looks siphon breaker needs repair.

Photo 3 of 3: UCIP_SP_2019_21585_36622.jpg



LS view: exposed steel pipe on levee slope.

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 01 Old River | Right | 1.51 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 1.44 | Rating ** | М | Issue No. | | 49 | |
|---------------|----------------------------------|--------------|-----------|------------------------|--------------|-------------|--|
| LM End | 1.44 | Issue Type + | Ma | Location * | | WS | |
| Earthen Levee | | | | GPS Latitude/Longitude | | | |
| Category | | | Start | | End | | |
| Item | Animal Co | imal Control | | | 83 ° | 37.806383 ° | |
| пеш | | | -121.4065 | 99 ° | -121.406599° | | |
| DWR ID | DWR ID DWR_RD2089_01_s _ 2012_49 | | | | | | |

Comment Code

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Deep burrow on waterside needs to be filled.

Photo 1 of 1: SP_2019_RD2089_316_49_20190313_00038.jpg



View of deep burrow on waterside. 11/10/2011

| LM Start | 1.48 | Rating ** | М | Issue No. | | 945 | |
|----------|--------|--------------|---------|------------------------|------------|--------------|--|
| LM End | 1.48 | Issue Type + | En | Location * | | | |
| Category | | | | GPS Latitude/Longitude | | | |
| Calegory | | Start | | End | | | |
| Item | DWR UC | | 37.8065 | 20° | 37.806520° | | |
| item | | | | -121.4073 | 92 ° | -121.407392° | |
| DWR ID | 23046 | | | | | | |

Comment Code

Inspector Comment

FS_ID:53182 DS ID:23046 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/12/2018 Same as last inspection; downgrading to Non-Urgent due to no visual pipe or levee threat (D. Sanoski - DWR UCIP).11/15/2016 Pipe found on WS only. Same as last inspection. (K. Fazel - UCIP)06/25/2015 Crossing appears abandoned; if so, should be done so properly. Pipe open on WS. Holes and cracks visible on pipe. (K. Fazel - UCIP)

FIELD_STRUCT_DESC: *ABANDONED* 12-inch reinforced concrete pipe of an unknown purpose possibly through the levee, approximately 8 feet below the crown. Smaller steel pipe sleeved through the 12-inch pipe with annular space grouted. Pipe does not cross channel and may not cross levee. May be related to the gas line crossing with DS ID 25121. Discovered from boat on 2015 DWR Erosion Survey. FS Date: 10/12/2018 5:22:43 PM

Photo 1 of 3: UCIP_SP_2019_53182_74506.jpg



View up WS slope from water. Pipe does not cross channel.

: Acceptable Minimally Acceptable U: Unacceptable

N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain Issue Type

Ma: Maintenance Deficiency Ob: Design & System Obsolescence En: Enforcement

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 01 Old River | Right | 1.51 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 1.48 | Rating ** | М | Issue No. | | 945 (cont) | |
|--------------|----------|----------------|----|------------|--------------|---------------|--|
| LM End | 1.48 | Issue Type + | En | Location * | | | |
| Category | Suppleme | ental | | GPS La | de/Longitude | | |
| Calegory | gory | | | Start | | End | |
| Item | DWR UC | IP Field Study | | 37.8065 | 20° | 37.806520° | |
| пеш | | | | -121.4073 | 92 ° | -121.407392 ° | |
| DWR ID | D 23046 | | | | | | |
| Comment Code | | | | | | | |

Inspector Comment

FS_ID:53182 DS_ID:23046 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/12/2018 Same as last inspection; downgrading to Non-Urgent due to no visual pipe or levee threat (D. Sanoski - DWR UCIP).11/15/2016 Pipe found on WS only. Same as last inspection. (K. Fazel - UCIP)06/25/2015 Crossing appears abandoned; if so, should be done so properly. Pipe open on WS. Holes and cracks visible on pipe. (K. Fazel - UCIP)

FIELD_STRUCT_DESC: *ABANDONED* 12-inch reinforced concrete pipe of an unknown purpose possibly through the levee, approximately 8 feet below the crown. Smaller steel pipe sleeved through the 12-inch pipe with annular space grouted. Pipe does not cross channel and may not cross levee. May be related to the gas line crossing with DS ID 25121. Discovered from boat on 2015 DWR Erosion Survey. FS Date: 10/12/2018 5:22:43 PM

 LM Start
 1.48
 Rating **
 M
 Issue No.
 945 (cont)

 LM End
 1.48
 Issue Type +
 En
 Location *



Gasline marker (for crossing with DS ID 25121) appr. 100 ft west of crossing.

Photo 3 of 3: UCIP_SP_2019_53182_76207.jpg



WS view of pipe

Unit Cover Sheet

Spring 2019 Levee Inspection Results

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles |
|---------------------------|-------|------------|
| Unit No. 02 Salmon Slough | Right | 1.35 |

| | Spring (March - May) | Summer (June - August) | (September - November) Fall | Winter (December - February) |
|-------------------------------------|------------------------------|---------------------------|--------------------------------|---------------------------------|
| Unit Maintenance Rating (Fall Only) | | | | |
| Date of Inspection | 4/4/2019 - 4/4/2019 | | | |
| DWR Inspector | Alberto De Leon | | | |
| Accompanied By | Wade Wylie _{DWR} | | | |

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 0.00 | Rating ** | U | Issue No. | Issue No. 20 | |
|----------------------------------|-----------|--------------|------------------------|-------------|--------------|---------------|
| LM End | 0.11 | Issue Type + | Ma | Location * | | LS |
| Earthen Levee | | | GPS Latitude/Longitude | | | |
| Category | | | Start | | End | |
| Item | Vegetatio | n | | 37.806636 ° | | 37.807958 ° |
| item | | | | -121.4078 | 40° | -121.409065 ° |
| DWR ID DWR_RD2089_02_s _ 2016_20 | | | | | | |
| Comment Code | | | | | | |

V2 : Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

| LM Start | 0.00 | Rating ** | U | Issue No. | 20 (cont) |
|----------|------|--------------|----|------------|-----------|
| LM End | 0.11 | Issue Type + | Ma | Location * | LS |

Photo 1 of 3: SP_2019_RD2089_317_20_20190313_00022.jpg



View of the vegetation on the landside levee slope.

Photo 2 of 3: SP_2019_RD2089_317_20_20190313_00023.jpg



View of dense veg on landward slope. (Fall 2018)

| LM Start | 0.00 | Rating ** | U | Issue No. | 20 (cont) |
|----------|------|--------------|----|------------|-----------|
| LM End | 0.11 | Issue Type + | Ма | Location * | LS |

Photo 3 of 3 : SP_2019_RD2089_317_20_20190422_00069.jpg



Typical view of vegetation on landside slope. (Spring 2019)

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 0.00 | Rating ** | U | Issue No. | | 58 | |
|----------------------------------|-----------|-----------------|---|------------------------|-------|--------------|--|
| LM End | 1.34 | Issue Type + Ma | | Location * | | WS | |
| Earthen Levee | | | | GPS Latitude/Longitude | | | |
| Calegory | Category | | | | Start | | |
| Item | Vegetatio | n | | 37.80663 | 6° | 37.819608° | |
| пеш | | | | -121.40784 | o° | -121.419609° | |
| DWR ID DWR_RD2089_02_s _ 2017_58 | | | | | | | |

Comment Code

V2 : Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

Trim back the shrub to allow access and visibility.

Photo 1 of 1: SP_2019_RD2089_317_58_20190422_00070.jpg



Typical view of vegetation on waterside slope. (Spring 2019)

| LM Start | 0.07 | Rating ** | U | Issue No. | | 4 | |
|----------|-------------------------------|--------------|----|------------|--------|-------------|---|
| LM End | 1.34 | Issue Type + | Ma | Location * | WS | | |
| Category | Earthen Levee | | | | atitud | e/Longitude | |
| Calegory | | | | Start | | End | |
| Item | Vegetatio | n | | 37.8073 | 75 ° | 37.819608 | 0 |
| пеш | | | | -121.4086 | 05 ° | -121.419609 | 0 |
| DWR ID | R ID DWR_RD2089_02_s _ 2012_4 | | | | | | |

Comment Code

V4 : Elderberries are blocking visibility and flood fight capability.

Inspector Comment

Thick brush may include some elderberries.

No Photos

| LM Start | 0.16 | Rating ** | U | Issue No. | | 48 | |
|------------------------|-----------|----------------|------|------------------------|------|---------------|---|
| LM End | 0.16 | Issue Type + | Ma | Location * | | LS | |
| Category Earthen Levee | | | | GPS Latitude/Longitude | | | |
| Calegory | | | | | | End | |
| Item | Animal Co | ontrol | | 37.80858 | 33° | 37.808583 | > |
| пеш | | | | -121.40943 | 32 ° | -121.409432 ° | > |
| DWR ID | DWR_RD2 | 089_02_f _ 201 | 3_48 | | | | |

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment



View of the rodent burrow on the landside levee slope.

| * Location | ** Rating | | + Issue Type |
|-----------------------------------|--------------------------|---|-----------------------------------|
| LS: Land Side N/A: Not Applicable | A : Acceptable | N : Not Inspected/Rated | Ma : Maintenance Deficiency |
| WS: Water Side | M : Minimally Acceptable | C : Corrected | Ob : Design & System Obsolescence |
| CR : Crown | U : Unacceptable | A/W : Acceptable but Monitor & Maintain | En: Enforcement |

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 0.20 | Rating ** | М | Issue No. | 46 | |
|----------------------------------|-----------|--------------|----------|------------------------|-----|---------------|
| LM End | 0.21 | Issue Type + | Ма | Location * | | |
| Supplemental | | | | GPS Latitude/Longitude | | |
| Category | | | Start | | End | |
| Item | 2017 Stor | m Damage | | 37.80910 | 00° | 37.809200° |
| пеш | | | | -121.40980 | 00° | -121.409900 ° |
| DWR ID DWR_RD2089_02_f _ 2017_46 | | | | | | · |
| | | Comn | nent Cod | de | | |

Inspector Comment

Levee Evaluation Comments

Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.

Site ID No:509

Site Designation:LMA-415

Repair Type: Erosion Rating:Area of Concern

Field Date:8/16/2017

Notes: Displaced riprap at toe.

| LM Start | 0.20 | Rating ** | М | Issue No. | 46 (cont) |
|----------|------|--------------|----|------------|-----------|
| LM End | 0.21 | Issue Type + | Ma | Location * | |



Photo 2 of 3: LEVAL_SP_2019_509_4315.jpg



Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 0.20 | Rating ** | М | Issue No. | 46 (cont) | |
|----------------------------------|-----------|--------------|----------|------------------------|-----------|---------------|
| LM End | 0.21 | Issue Type + | Ma | Location * | | |
| Supplemental | | | | GPS Latitude/Longitude | | |
| Calegory | Category | | | Start | | End |
| Item | 2017 Stor | m Damage | | 37.809100° | | 37.809200° |
| пеш | | | | -121.40980 | 00° | -121.409900 ° |
| DWR ID DWR_RD2089_02_f _ 2017_46 | | | | | | |
| | | Comn | nent Coo | le | | |

Inspector Comment

Levee Evaluation Comments

Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.

Site ID No:509

Site Designation:LMA-415

Repair Type: Erosion

Rating:Area of Concern

Field Date:8/16/2017 Notes: Displaced riprap at toe.



| LM Start | 0.21 | Rating ** | М | Issue No. | | 49 | | |
|--------------|---------------------------------|--------------|------------------------|------------|--------------|------------|--|--|
| LM End | 0.21 | Issue Type + | Ma | Location * | | LS | | |
| Category | Earthen L | | GPS Latitude/Longitude | | | | | |
| Calegory | | | Start | | End | | | |
| Item | Animal Control | | | 37.8091 | 48 ° | 37.809148° | | |
| item | | | -121.4098 | 97° | -121.409897° | | | |
| DWR ID | VR ID DWR_RD2089_02_s _ 2018_49 | | | | | | | |
| Comment Code | | | | | | | | |

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows

Inspector Comment

| Photo 1 of 1 : SP | 2010 | PD2080 | 317 | 10 | 20100313 | 00050 ina |
|--------------------|------|--------|-----|----|----------|-----------|
| FIIOLO I OI I . SF | 2019 | KD2009 | 317 | 49 | 20190313 | pdi.ocoon |



View of the multiple rodent burrows on the landside levee hinge and slope.

N: Not Inspected/Rated C : Corrected

Issue Type

Ma: Maintenance Deficiency Ob: Design & System Obsolescence En: Enforcement

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 0.26 | Rating ** | М | Issue No. | | 24 | | | |
|----------|---------------------------|--------------|-------|------------|------------------------|---------------|--|--|--|
| LM End | 0.26 | Issue Type + | Ma | Location * | | LS | | | |
| Category | Earthen Levee | | | | GPS Latitude/Longitude | | | | |
| Calegory | | | Start | | End | | | | |
| Item | Animal Co | ontrol | | 37.8097 | 17° | 37.809717° | | | |
| пеш | | | | -121.4105 | 11 ° | -121.410511 ° | | | |
| DWR ID | DWR_RD2089_02_s _ 2012_24 | | | | | | | | |

Comment Code

A1: Exterminate rodents and backfill and compact or grout burrows.

Inspector Comment

A ground squirrel was sighted and there is active burrowing in the area.

Photo 1 of 1 : SP_2019_RD2089_317_24_20190313_00025.jpg



View of active burrows, ground squirrel sighted in area. 05/24/2011

| LM Start | 0.28 | Rating ** | U | Issue No. | | 52 |
|----------|---------------------------|--------------|------------------------|------------|---------------|------------|
| LM End | 0.30 | Issue Type + | En | Location * | | LS |
| Category | Earthen L | | GPS Latitude/Longitude | | | |
| Calegory | | | Start | | End | |
| Item | Encroach | ments | | 37.8098 | 99° | 37.809997° |
| iteiii | | | -121.4108 | 88 ° | -121.411298 ° | |
| DWR ID | DWR_RD2089_02_f _ 2013_52 | | | | | |

Comment Code

PR : Prunings

Inspector Comment

Remove prunings and other debris from the levee toe.

Photo 1 of 1 : SP_2019_RD2089_317_52_20190313_00055.jpg



View of the tree branches on the landside levee toe obstructing access.

| LM Start | 0.28 | Rating ** | U | Issue No. | | 51 | |
|----------|-----------|---------------|------|------------|------------------------|---------------|--|
| LM End | 0.28 | Issue Type + | Ma | Location * | LS | | |
| Category | Earthen L | Earthen Levee | | | GPS Latitude/Longitude | | |
| Calegory | | | | Start | | End | |
| Item | Animal Co | ontrol | | 37.8098 | 99° | 37.809899° | |
| пеш | | | | -121.4108 | 89° | -121.410889 ° | |
| DWB ID | DWB BD2 | 080 02 f 201 | 3 51 | | | | |

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment



View of the rodent burrow on the landside levee toe.

| * Location | | ** Rating | | + Issue Type |
|----------------|---------------------|--------------------------|---|-----------------------------------|
| LS: Land Side | N/A: Not Applicable | A : Acceptable | N : Not Inspected/Rated | Ma : Maintenance Deficiency |
| WS: Water Side | | M : Minimally Acceptable | C : Corrected | Ob : Design & System Obsolescence |
| CR · Crown | | U · Unaccentable | A/W · Acceptable but Monitor & Maintain | En : Enforcement |

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 0.30 | Rating ** | U | Issue No. | | 53 | |
|--------------|-----------|------------------------|-------|------------|-----|--------------|--|
| LM End | 0.31 | Issue Type + | Ma | Location * | LS | | |
| Category | Earthen L | GPS Latitude/Longitude | | | | | |
| Calegory | | | Start | | End | | |
| Item | Animal Co | ontrol | | 37.8099 | 77° | 37.810022 ° | |
| пеш | | | | -121.4111 | 89° | -121.411387° | |
| DWR ID | DWR_RD2 | 3_53 | | | | | |
| Comment Code | | | | | | | |

A1 : Exterminate rodents and backfill and compact or grout burrows.

Inspector Comment

Exterminating rodents and grouting the burrows is recommended.

| LM Start | 0.30 | Rating ** | U | Issue No. | 53 (cont) |
|----------|------|--------------|----|------------|-----------|
| LM End | 0.31 | Issue Type + | Ma | Location * | LS |



View of the multiple rodent burrows on the landside levee slope.

Photo 2 of 3: SP_2019_RD2089_317_53_20190313_00057.jpg



View of the rodent burrow on the landside levee slope.

| LM Start | 0.30 | Rating ** | U | Issue No. | 53 (cont) |
|----------|------|--------------|----|------------|-----------|
| LM End | 0.31 | Issue Type + | Ma | Location * | LS |



Another view of the multiple rodent burrows on the landside levee slope.

* Location

LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown

** Rating

A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable U : Unacceptable U : Unacceptable U : WA : Acceptable but Monitor & Maintain

** Rating

A : Not Inspected/Rated Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 0.32 | Rating ** | A/W | Issue No. | 47 | | | |
|----------|---------------------------|------------------------|-----|------------|------|---------------|--|--|
| LM End | 0.57 | Issue Type + | Ma | Location * | | | | |
| Category | ental | GPS Latitude/Longitude | | | | | | |
| Calegory | | | | Start | | End | | |
| Item | 2017 Stor | m Damage | | 37.81002 | ° 02 | 37.811810° | | |
| пеш | | | | -121.41155 | ° 0 | -121.415390 ° | | |
| DWR ID | DWR_RD2089_02_f _ 2017_47 | | | | | | | |
| | Comment Code | | | | | | | |

Inspector Comment

Levee Evaluation Comments

Description: Site ID No:109

Site Designation:335-103 Repair Type: Erosion Rating:Area of Concern Field Date:6/7/2017

Notes: vegetation too dense for evaluation

| LM Start | 0.32 | Rating ** | A/W | Issue No. | 47 (cont) |
|----------|------|--------------|-----|------------|-----------|
| LM End | 0.57 | Issue Type + | Ma | Location * | |



Photo 2 of 3: LEVAL_SP_2019_109_1298.jpg



Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 0.32 | Rating ** | A/W | Issue No. | 47 (cont) | | | | |
|----------|---------------------------|--------------|--------------------------|------------|------------|---------------|--|--|--|
| LM End | 0.57 | Issue Type + | Ма | Location * | | | | | |
| Category | Suppleme | ental | tal GPS Latitude/Longitu | | | le/Longitude | | | |
| Calegory | | | | Start | | End | | | |
| Item | 2017 Stor | m Damage | 37.81002 | o° | 37.811810° | | | | |
| пеш | | | | -121.41155 | o° | -121.415390 ° | | | |
| DWR ID | DWR_RD2089_02_f _ 2017_47 | | | | | | | | |
| | Comment Code | | | | | | | | |

Inspector Comment

Levee Evaluation Comments

Description: Site ID No:109

Site Designation:335-103 Repair Type: Erosion Rating:Area of Concern Field Date:6/7/2017

Notes: vegetation too dense for evaluation



| LM Start | 0.34 Rating ** M | | | Issue No. | | 55 | | |
|----------|---------------------------------|-----------------|------|------------------------|------|-----------|---|--|
| LM End | 0.34 | Issue Type + Ma | | Location * | | LS | | |
| Category | Earthen L | evee | | GPS Latitude/Longitude | | | | |
| Calegory | | | | Start | | End | | |
| Item | Trim / Thi | n Trees | | 37.8100 | 52 ° | 37.810052 | 0 | |
| пеш | | -121.4119 | 66 ° | -121.411966 | 0 | | | |
| DWR ID | VR ID DWR_RD2089_02_s _ 2017_55 | | | | | | | |

Comment Code

T1 : Trim trees to at least five feet above ground level.

Inspector Comment

Photo 1 of 1: SP_2019_RD2089_317_55_20190313_00060.jpg

View of the overgrown tree on the levee slope.

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 0.35 | Rating ** | М | Issue No. | | 2 | | | |
|------------------------|---------------|----------------|---------------|------------|---------------|-------------|--|--|--|
| LM End | 0.35 | Issue Type + | En | Location * | CR | | | | |
| Category Earthen Levee | | | | GPS La | atitud | e/Longitude | | | |
| | | | | Start | | End | | | |
| Item | Encroachments | | | 37.810106° | | 37.810106° | | | |
| пеш | | | -121.412133 ° | | -121.412133 ° | | | | |
| DWR ID | DWR_RD2 | 089_02_s _ 201 | 2_2 | | | | | | |
| Comment Code | | | | | | | | | |
| FE : Fence | FE : Fence | | | | | | | | |

Inspector Comment

There are gates across the levee.



View of gate across levee crown.

| LM Start | 0.36 | Rating ** | М | Issue No. | | 26 |
|----------|-----------|--------------|------|------------|--------|--------------|
| LM End | 0.36 | Issue Type + | Ма | Location * | | LS |
| Category | Earthen L | evee | | GPS La | atitud | e/Longitude |
| Calegory | | | | Start | | End |
| Item | Animal Co | ontrol | | 37.8101 | 25 ° | 37.810125 ° |
| item | | | | -121.4123 | 17° | -121.412317° |
| DWR ID | DWR RD2 | 089 02 s 201 | 2 26 | | | |

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Active burrow needs to be repaired.

Photo 1 of 1 : SP_2019_RD2089_317_26_20190313_00026.jpg



View of active rodent burrow. 05/24/2011

| LM Start | 0.39 | 0.39 Rating ** U | | | | 7 | |
|----------|-----------|----------------------------|----------|------------|------|-------------|--|
| LM End | 0.39 | Issue Type + Ma Location * | | CR | | | |
| Category | Earthen L | evee | | GPS Lat | itud | e/Longitude | |
| Calegory | | | | Start | | End | |
| Itom | | rface / Depres | ssions / | 37.81014 | o° | 37.810140 | |
| пеш | Rutting | | | -121.41290 | 3° | -121.412906 | |
| DWR ID | DWR_RD2 | 089_02_f _ 201 | 8_7 | | | | |

Comment Code

C2: Repair depressions or ruts in the crown or slope.

Inspector Comment

There is a arge depression on the levee crown.



View of depresson greater that six inches on levee crown. (Fall 2018)

| * Location | ** Rating | | + Issue Type |
|--|--|---|--|
| LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 0.39 | Rating ** | A/W | Issue No. | 50 | | |
|--------------|----------------------------------|--------------|------------|------------------------|---------------|-------------|--|
| LM End | 0.41 | Issue Type + | Ma | Location * | | | |
| Category | | | | GPS Latitude/Longitude | | | |
| Category | | | | Start | | End | |
| Item | 2017 Storm Damage | | | 37.8101 | 50° | 37.810270 ° | |
| пеш | | | -121.41293 | 30° | -121.413240 ° | | |
| DWR ID | DWR ID DWR_RD2089_02_f _ 2017_50 | | | | | | |
| Comment Code | | | | | | | |

Inspector Comment

Levee Evaluation Comments

Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.

Site ID No:508

Site Designation:LMA-414 Repair Type: Erosion

Rating:Serious Field Date:8/16/2017

Notes: Large erosion around tree with a 12' vertical cut.

| LM Start | 0.39 | Rating ** | A/W | Issue No. | 50 (cont) |
|----------|------|--------------|-----|------------|-----------|
| LM End | 0.41 | Issue Type + | Ma | Location * | |



Photo 2 of 3: LEVAL_SP_2019_508_4323.jpg



Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 0.39 Rating ** A/W Issue No. 50 | | 50 (cont) | | | | |
|----------------------------------|---|--------------|------------|------------------------|---------------|------------|--|
| LM End | 0.41 | Issue Type + | Ма | Location * | | | |
| Supplemental | | | | GPS Latitude/Longitude | | | |
| Calegory | | | | Start | | End | |
| Item | 2017 Storm Damage | | | 37.8101 | 50° | 37.810270° | |
| пеш | | | -121.41293 | 30° | -121.413240 ° | | |
| DWR ID DWR_RD2089_02_f _ 2017_50 | | | | | | | |
| Comment Code | | | | | | | |

Inspector Comment

Levee Evaluation Comments

Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.

Site ID No:508

Site Designation:LMA-414

Repair Type: Erosion Rating:Serious

Field Date:8/16/2017

Notes: Large erosion around tree with a 12' vertical cut.



Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 0.40 | Rating ** | A/W | Issue No. | | 1 |
|----------|------------------|------------------------|-----|------------|------|---------------|
| LM End | 0.41 | Issue Type + | Ma | Location * | | WS |
| Category | Suppleme | GPS Latitude/Longitude | | | | |
| Calegory | Category | | | | | End |
| Item | DWR Ero | DWR Erosion Survey | | | 60° | 37.809960 ° |
| item | | | | -121.4132 | ° 00 | -121.413200 ° |
| DWR ID | RD2089U02RM28.35 | | | | | |

Inspector Comment

Comment Code

09/13/2017: No significant change observed.

09/26/2016: The erosion site was visited by land survey instead of water surface survey due to the dense water grass in the river this year. No significant change observed.

06/25/2015: No significant change observed.

07/02/2014: No significant change observed.

08/13/2013: No significant change observed.

08/07/2012: The site has been visited by boat survey. No significant change observed.

08/23/2011: No significant change observed on site.

09/07/2010: Site consists of a jutting rip rap that has created an eddy, scouring the levee slope. Most sections of the toe and lower slope are lined with rip rap. However, the rip rap is sloughing on the mid slope and at the toe, exposing the underlying soils and tree roots. The remaining revetment is no longer adequately protecting the slope. There are 3 Sycamore trees at the toe with exposed tree roots.

08/05/2010: Recommended for repair, per CLRO.

09/28/2009: Pocket erosion on lower slope just above the toe rip rap; protruding rip rap upstream is creating an eddy, scouring the levee slope; Site # is the same as RM28.40,LM0.30; previously rated "U"; pictures will be made available during the next survey.

11/05/2008: Cut into levee profile; riprap slide; rodent holes; pictures do not match GPS and current condition. [2017 Site

ID:RD2089U02RM28.35]

| LM Start | 0.40 | Rating ** | A/W | Issue No. | 1 (cont) |
|----------|------|--------------|-----|------------|----------|
| LM End | 0.41 | Issue Type + | Ma | Location * | WS |

Photo 1 of 3: SP_2019_RD2089_317_1_20190313_00001.jpg



Front view of the site.

Photo 2 of 3: SP_2019_RD2089_317_1_20190313_00002.jpg



Close view of the erosion.

| * Location | ** Rating | | + Issue Type |
|--|--|---|--|
| LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 0.40 | Rating ** | A/W | Issue No. | | 1 (cont) | |
|----------|----------|------------------------|-----|------------|-----|-------------|---|
| LM End | 0.41 | Issue Type + | Ма | Location * | | WS | |
| Category | Suppleme | GPS Latitude/Longitude | | | | | |
| Calegory | | Start | | End | | | |
| Item | DWR Ero | DWR Erosion Survey | | | 60° | 37.809960 | 0 |
| nem | | | | -121.4132 | 00° | -121.413200 | 0 |
| DWR ID | RD2089U0 | 2RM28.35 | | | | | |

Comment Code

Inspector Comment

09/13/2017: No significant change observed.

09/26/2016: The erosion site was visited by land survey instead of water surface survey due to the dense water grass in the river this year. No significant change observed.

06/25/2015: No significant change observed.

07/02/2014: No significant change observed.

08/13/2013: No significant change observed.

08/07/2012: The site has been visited by boat survey. No significant change observed.

08/23/2011: No significant change observed on site.

09/07/2010: Site consists of a jutting rip rap that has created an eddy, scouring the levee slope. Most sections of the toe and lower slope are lined with rip rap. However, the rip rap is sloughing on the mid slope and at the toe, exposing the underlying soils and tree roots. The remaining revetment is no longer adequately protecting the slope.

There are 3 Sycamore trees at the toe with exposed tree roots.

08/05/2010: Recommended for repair, per CLRO.

09/28/2009: Pocket erosion on lower slope just above the toe rip rap; protruding rip rap upstream is creating an eddy, scouring the levee slope; Site # is the same as RM28.40,LM0.30; previously rated "U"; pictures will be made available during the next survey.

11/05/2008: Cut into levee profile; riprap slide; rodent holes; pictures do not match GPS and current condition. [2017 Site ID:RD2089U02RM28.35]

Photo 3 of 3: SP_2019_RD2089_317_1_20190313_00003.jpg



Close view of the erosion.

| LM Start | 0.44 | Rating ** | М | Issue No. | | 27 | |
|----------------------------------|---------------------------|------------------------|----|------------|-----|-------------|--|
| LM End | 0.44 | Issue Type + | En | Location * | WS | | |
| Category | evee | GPS Latitude/Longitude | | | | | |
| Calegory | | | | Start | | End | |
| ltom | Encroachments | | | | 90° | 37.810490 ° | |
| пеш | -121.413638 ° -121.413638 | | | | | | |
| DWR ID DWR_RD2089_02_s _ 2012_27 | | | | | | | |
| Comment Code | | | | | | | |

BU: Building

Inspector Comment

There is a portable toilet on the bank at the water's edge as well as other items.

Photo 1 of 3: SP_2019_RD2089_317_27_20190313_00027.jpg



View of portable toilet is in the shadows in the center of the photo at the water's edge. 05/24/2011

| * Location | ** Rating | | + Issue Type |
|--|--|---|--|
| LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 0.44 | Rating ** | М | Issue No. | | 27 (cont) | |
|----------|---------------------------|-----------------|-------------|------------|-----|-------------|---|
| LM End | 0.44 | Issue Type + En | | Location * | | WS | |
| Category | GPS La | atitud | e/Longitude | | | | |
| Calegory | | | | Start | | End | |
| Item | Encroachments | | | | 90° | 37.810490 | ٥ |
| пеш | | | | | 38° | -121.413638 | ٥ |
| DWR ID | DWR_RD2089_02_s _ 2012_27 | | | | | | |

Comment Code

BU: Building

Inspector Comment

There is a portable toilet on the bank at the water's edge as well as other items.

| LM Start | 0.44 | Rating ** | М | Issue No. | 27 (cont) |
|----------|------|--------------|----|------------|-----------|
| LM End | 0.44 | Issue Type + | En | Location * | WS |

Photo 2 of 3: SP_2019_RD2089_317_27_20190313_00028.jpg



View of pinic table and other items on waterward berm. (Fall 2018)

Photo 3 of 3: SP_2019_RD2089_317_27_20190313_00029.jpg



Close-up view of portable toilet at water's edge. (Fall 2018)

| LM Start | 0.44 | Rating ** | М | Issue No. | | 34 | | | | | | |
|------------|-----------|----------------|----------|------------|--------|--------------|--|--|--|--|--|--|
| LM End | 0.44 | Issue Type + | En | Location * | LS | | | | | | | |
| Catagony | Earthen L | evee | | GPS La | atitud | e/Longitude | | | | | | |
| Category | gory | | | | | End | | | | | | |
| Item | Encroach | ments | | 37.8105 | 09° | 37.810509° | | | | | | |
| item | | | | -121.4136 | 24 ° | -121.413624° | | | | | | |
| DWR ID | DWR_RD2 | 089_02_s _ 201 | 9_34 | | | | | | | | | |
| | | Comn | nent Cod | le | | | | | | | | |
| PR : Pruni | ngs | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | Inspecto | or Comm | nent | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

No Photos

| * Location | ** Rating | | + Issue Type |
|--|--|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 0.46 | Rating ** | М | Issue No. | | 13 | |
|----------|---------------------------|--------------|-------|-------------|------|-------------|--|
| LM End | 0.46 | Issue Type + | Ма | Location * | CR | | |
| Category | evee | GPS La | titud | e/Longitude | | | |
| Calegory | | | | Start | | End | |
| Item | Animal Co | ontrol | | 37.8106 | 91 ° | 37.810691 | |
| item | | | | -121.4140 | 14 ° | -121.414014 | |
| DWR ID | DWR_RD2089_02_s _ 2012_13 | | | | | | |

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

There are two old burrows that need to be filled.

Photo 1 of 1: SP_2019_RD2089_317_13_20190313_00015.jpg



View of two large burrows on crown, need to be filled. 11/10/2011

| LM Start | 0.47 | Rating ** | М | Issue No. | | 10 | | |
|----------|---------|---------------------------|----------|-------------|-----|---------------|--|--|
| LM End | 0.47 | Issue Type + | Ma | Location * | | CR | | |
| Category | evee | GPS La | atitud | e/Longitude | | | | |
| Calegory | | | | Start | | End | | |
| Item | | rface / Depres | ssions / | 37.8107 | 14° | 37.810714° | | |
| item | Rutting | | | -121.4140 | 57° | -121.414057 ° | | |
| DWR ID | DWR_RD2 | DWR_RD2089_02_s _ 2012_10 | | | | | | |

Comment Code

C3 : Add appropriate gravel or road base. Grade and compact.

Inspector Comment

Surface depression needs to be filled.

Photo 1 of 1: SP_2019_RD2089_317_10_20190313_00011.jpg



Depression in crown needs to be filled. 11/10/2011

| LM Start | 0.50 | Rating ** | U | Issue No. | | 54 |
|----------|-----------|----------------|-------|-------------|-----|--------------|
| LM End | 0.50 | Issue Type + | Ма | Location * | LS | |
| Category | evee | GPS La | titud | e/Longitude | | |
| Calegory | | | | Start | | End |
| Item | Animal Co | ontrol | | 37.81098 | 89° | 37.810989° |
| item | | | | -121.41451 | 7° | -121.414517° |
| DWR ID | DWR_RD2 | 089_02_f _ 201 | 3_54 | | | |

Comment Code

A1 : Exterminate rodents and backfill and compact or grout burrows.

Inspector Comment



View of the rodent burrow on the landside levee slope.

| * Location | ** Rating | | + Issue Type |
|--|--|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 0.52 | Rating ** | Rating ** U | | Issue No. | | |
|----------------------------------|----------------|--------------|-------------|------------|-----------|-------------|---|
| LM End | 0.52 | Issue Type + | Ма | Location * | WS | | |
| Category | GPS Lat | itud | e/Longitude | | | | |
| Calegory | | | | Start | | End | |
| Item | Animal Control | | | | 0 ° | 37.811150 | 0 |
| item | | | | -121.41474 | 8° | -121.414748 | 0 |
| DWR ID DWR_RD2089_02_s _ 2012_14 | | | | | | | |

Comment Code

A2: Repair the levee slope damaged by livestock and prevent large animal access.

Inspector Comment

Repair damage to slope caused by livestock.

Photo 1 of 1: SP_2019_RD2089_317_14_20190313_00016.jpg



View of the approximately 1' scarp that has been created by livestock travel. 11/10/2011

| LM Start | 0.54 | Rating ** | М | Issue No. | 60 | | |
|--------------|----------|---------------|----|------------------------|-----|---------------|--|
| LM End | 0.54 | Issue Type + | En | Location * | | | |
| Category | Suppleme | ental | | GPS Latitude/Longitude | | | |
| Calegory | | | | Start | | End | |
| Item | DWR UC | P Field Study | | 37.811369° 37 | | 37.811369° | |
| пеш | | | | -121.4150 | 50° | -121.415050 ° | |
| DWR ID 23047 | | | | | | | |
| Comment Code | | | | | | | |

Inspector Comment

FS_ID:21676 DS_ID:23047 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: - air relief valve on waterside. Needs repair.-

concrete standpipe on landside.

FIELD_STRUCT_DESC: 14-inch irrigation discharge pipe of an unknown material through the levee, 8 feet below the crown. Pump on a pile structure in the stream. Timber walkway to the pump. Air relief valve on the waterside (WS) slope. Concrete distribution standpipe on the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 1991. USACE San Joaquin O&M Manual 8, 1968, (HLM 0.55)]. FS Date: 9/12/2013

Photo 1 of 3: UCIP SP 2019 21676 36861.jpg



WS view: pipe and pump on piling strucure in water channel.

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 0.54 | Rating ** | М | Issue No. | | 60 (cont) | |
|----------|----------|----------------|----|------------|------------------------|---------------|--|
| LM End | 0.54 | Issue Type + | En | Location * | | | |
| Category | Suppleme | upplemental | | | GPS Latitude/Longitude | | |
| Calegory | | | | | | End | |
| Item | DWR UC | IP Field Study | | 37.81136 | 9° | 37.811369° | |
| пеш | | | | -121.41505 | 0 ° | -121.415050 ° | |
| DWR ID | 23047 | | | | | | |

Comment Code

Inspector Comment

FS_ID:21676 DS_ID:23047 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: - air relief valve on waterside. Needs repair.-

concrete standpipe on landside.

FIELD_STRUCT_DESC: 14-inch irrigation discharge pipe of an unknown material through the levee, 8 feet below the crown. Pump on a pile structure in the stream. Timber walkway to the pump. Air relief valve on the waterside (WS) slope. Concrete distribution standpipe on the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 1991. USACE San Joaquin O&M Manual 8, 1968, (HLM 0.55)].

FS Date: 9/12/2013

| LM Start | 0.54 | Rating ** | М | Issue No. | 60 (cont) |
|----------|------|--------------|----|------------|-----------|
| LM End | 0.54 | Issue Type + | En | Location * | |

Photo 2 of 3: UCIP_SP_2019_21676_36860.jpg



WS view: air relief valve on pipe. Pipe exposed in levee slope.

Photo 3 of 3: UCIP_SP_2019_21676_36859.jpg



WS view: pipe (left) and steel walkway to pump on piling structure in the channel.

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 0.54 | Rating ** | М | Issue No. | | 35 | |
|------------|----------------------------------|----------------|----------|---------------|-----|--------------------|--|
| LM End | 0.54 | Issue Type + | Ма | Location * | | CR | |
| Category | evee | GPS La | atitud | e/Longitude | | | |
| Calegory | | | | Start | | End | |
| Item | | rface / Depres | ssions / | 37.8113 | 82° | 37.811382 ° | |
| Item | Rutting | | | -121.415054 ° | | 54 ° -121.415054 ° | |
| DWR ID | DWR ID DWR_RD2089_02_f _ 2015_35 | | | | | | |
| | | Comn | nent Cod | le | | | |
| C2 : Repai | r depressi | ons or ruts in | the crow | n or slope. | | | |
| | | Inspecto | or Comm | ent | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| LM Start | 0.54 | Rating ** | М | Issue No. | 35 (cont) |
|----------|------|--------------|----|------------|-----------|
| LM End | 0.54 | Issue Type + | Ma | Location * | CR |



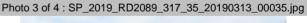
View of the levee crown depression looking upstream.

Photo 2 of 4: SP_2019_RD2089_317_35_20190313_00034.jpg



View of the levee crown depression looking downstream.

| LM Start | 0.54 | Rating ** | М | Issue No. | 35 (cont) | |
|----------|------|--------------|----|------------|-----------|--|
| LM End | 0.54 | Issue Type + | Ma | Location * | CR | |





View of the levee crown depression looking to the landside.

| * Location | ** Rating | | + Issue Type |
|--|--|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 0.54 | Rating ** | М | Issue No. | | 35 (cont) |
|---|-----------|-------------------------------|------|------------|-------|---------------|
| LM End | 0.54 | Issue Type + | Ma | Location * | | CR |
| Category | Earthen L | .evee | | GPS La | titud | le/Longitude |
| Category | | | | Start | | End |
| ltom | | Crown Surface / Depressions / | | | 82 ° | 37.811382 ° |
| F | Rutting | | | -121.4150 | 54 ° | -121.415054 ° |
| DWR ID | DWR_RD2 | 089_02_f _ 201 | 5_35 | | | |
| Comment Code | | | | | | |
| C2: Repair depressions or ruts in the crown or slope. | | | | | | |
| | | | | | | |

Inspector Comment

Photo 4 of 4: SP_2019_RD2089_317_35_20190313_00036.jpg



View of the levee crown depression looking to the waterside.

| LM Start | 0.60 | Rating ** A/W | | Issue No. | | 56 |
|----------|---------------------------|---------------|------------|------------|---------------|-------------|
| LM End | 0.61 | Issue Type + | Ma | Location * | | |
| Category | Supplemental | | | GPS La | titud | e/Longitude |
| Calegory | | | | Start | | End |
| Item | 2017 Stor | m Damage | | 37.8120 | 00° | 37.812100 ° |
| пеш | | | -121.41570 | 00° | -121.415900 ° | |
| DWR ID | DWR_RD2089_02_s _ 2018_56 | | | | | |

Comment Code

Inspector Comment

Levee Evaluation Comments

Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.

Site ID No:507

Site Designation:LMA-413

Repair Type: Erosion

Rating:Serious

Field Date:8/16/2017

Notes: Vertical cut on outside bend of river

Photo 1 of 3: LEVAL_SP_2019_507_4335.jpg



Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 0.60 | Rating ** | A/W | Issue No. 56 (cont | | 56 (cont) | |
|-----------------------|---------------------------|--------------|------------------------|--------------------|-----|---------------|--|
| LM End | 0.61 | Issue Type + | Ma | Location * | | | |
| Category Supplemental | | | GPS Latitude/Longitude | | | | |
| Calegory | | | | Start | | End | |
| Item | 2017 Stor | m Damage | | 37.81200 | 00° | 37.812100 ° | |
| пеш | | | | -121.41570 | 00° | -121.415900 ° | |
| DWR ID | DWR_RD2089_02_s _ 2018_56 | | | | | | |
| | Comment Code | | | | | | |

Inspector Comment

Levee Evaluation Comments

Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.

Site ID No:507

Site Designation:LMA-413

Repair Type: Erosion

Rating:Serious

Field Date:8/16/2017 Notes: Vertical cut on outside bend of river

| LM Start | 0.60 | Rating ** | A/W | Issue No. | 56 (cont) |
|----------|------|--------------|-----|------------|-----------|
| LM End | 0.61 | Issue Type + | Ma | Location * | |

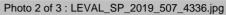




Photo 3 of 3: LEVAL_SP_2019_507_4340.jpg



Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 0.76 | Rating ** | М | Issue No. | | 15 | |
|------------------------|-----------|----------------|------|------------------------|----|-------------|---|
| LM End | 0.76 | Issue Type + | Ма | Location * | | LS | |
| Category Earthen Levee | | | | GPS Latitude/Longitude | | | |
| Calegory | | | | Start | | End | |
| Item | Erosion / | Bank Caving | | 37.813934 | ۱° | 37.813934 | 0 |
| пеш | | | | -121.414320 | ° | -121.414320 | 0 |
| DWR ID | DWR_RD2 | 089_02_f _ 201 | 4_15 | | | | |

Comment Code

E2 : Schedule repair of erosion site prior to the next inspection.

Inspector Comment

Photo 1 of 1: SP_2019_RD2089_317_15_20190313_00017.jpg



View of the scour from surface runoff on the landside levee slope.

| LM Start | 0.83 | Rating ** | М | Issue No. | | 21 | |
|----------|---------------|----------------|------|------------|------------------------|-------------|--|
| LM End | 0.83 | Issue Type + | Ma | Location * | | WS | |
| Category | Earthen Levee | | | | GPS Latitude/Longitude | | |
| Calegory | | | | Start | | End | |
| Item | Animal Co | Animal Control | | | 73 ° | 37.814773 | |
| пеш | | | | -121.4145 | 55 ° | -121.414555 | |
| DWR ID | DWR RD2 | 089 02 s 201 | 2 21 | | | | |

Comment Code

A2 : Repair the levee slope damaged by livestock and prevent large animal access.

Inspector Comment

Livestock have worn paths into levee slope.

No Photos

| LM Start | 0.83 | Rating ** | М | Issue No. | | 38 | |
|----------|----------------|----------------|------------------------|------------|------|-------------|---|
| LM End | 0.83 | Issue Type + | Ma | Location * | WS | | |
| Category | Earthen L | .evee | GPS Latitude/Longitude | | | | |
| Calegory | | | | Start | | End | |
| Item | Animal Control | | | 37.8148 | 44° | 37.814844 | 0 |
| пеш | | | | -121.4145 | 66 ° | -121.414566 | 0 |
| DWR ID | DWR_RD2 | 089_02_s _ 201 | 2_38 | | | | |
| | | _ | | | | | |

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

There are active burrows present.

No Photos

| * Location | ** Rating | | + Issue Type |
|---|---|--|---|
| LS : Land Side N/A : Not Applicable WS : Water Side | A : Acceptable M : Minimally Acceptable | N : Not Inspected/Rated C : Corrected | Ma : Maintenance Deficiency Ob : Design & System Obsolescence |
| CR : Crown | U : Unacceptable | A/W : Acceptable but Monitor & Maintain | En : Enforcement |

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 0.84 | Rating ** | М | Issue No. | 9 | | | |
|----------|--------------|------------------------|-----|------------|----|---------------|--|--|
| LM End | 0.84 | Issue Type + | En | Location * | CR | | | |
| Category | evee | GPS Latitude/Longitude | | | | | | |
| Calegory | Category | | | | | End | | |
| Item | Encroach | ments | | 37.81488 | 1° | 37.814881 ° | | |
| пеш | | | | -121.41467 | 6° | -121.414676 ° | | |
| DWR ID | DWR_RD2 | 089_02_s _ 201 | 2_9 | | | | | |
| | Comment Code | | | | | | | |

FE : Fence

Inspector Comment

There is a gate across levee crown.



View of the fence gate across levee crown.

| 0.84 | Rating ** | М | Issue No. | | 25 | |
|---------------------------|--------------------------|--|---|--|--|--|
| 0.84 | Issue Type + | Ma | Location * | | LS | |
| Category Earthen Levee | | | | GPS Latitude/Longitude | | |
| | | Start | | End | | |
| Vegetatio | n | | 37.8149 | 06° | 37.814906 ° | |
| | | | -121.4147 | 45 ° | -121.414745 ° | |
| DWR_RD2089_02_s _ 2012_25 | | | | | | |
| | 0.84 Earthen L Vegetatio | 0.84 Issue Type + Earthen Levee Vegetation | 0.84 Issue Type + Ma Earthen Levee Vegetation | 0.84 Issue Type + Ma Location * Earthen Levee GPS La Start Start Vegetation 37.8149 -121.4147. | 0.84 Issue Type + Ma Location * Earthen Levee GPS Latitud Start Vegetation 37.814906 ° -121.414745 ° | |

Comment Code

V4: Elderberries are blocking visibility and flood fight capability.

Inspector Comment

Elderberry and blackberry on levee slope.

No Photos

| LM Start | 0.84 | Rating ** | М | Issue No. | | 42 | | |
|------------------------|-----------------|----------------|------|------------------------|------|-------------|---|--|
| LM End | 0.84 | Issue Type + | Ma | Location * | | LS | | |
| Category Earthen Levee | | | | GPS Latitude/Longitude | | | | |
| Calegory | | | | Start | | End | | |
| Item | Slope Stability | | | | 31 ° | 37.814931 | • | |
| пеш | | | | -121.4147 | 56 ° | -121.414756 | ۰ | |
| DWR ID | DWR_RD2 | 089_02_f _ 201 | 6_42 | | | | | |

Comment Code

S3: Repair the levee slope damaged by vehicle traffic and prevent access where possible.

Inspector Comment

Ramp is encroaching into the levee slope. Add appropriate material to stabilize the slope.

Photo 1 of 1 : SP_2019_RD2089_317_42_20190313_00042.jpg



View of the ramp on the landside levee slope.

| * Location | ** Rating | | + Issue Type |
|--|--|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 0.85 | Rating ** | U | Issue No. | | 40 | | |
|----------|---------------------------|--------------|------------------------|------------|--------------|-------------|--|--|
| LM End | 0.90 | Issue Type + | Ма | Location * | | LS | | |
| Catagony | Earthen L | evee | GPS Latitude/Longitude | | | | | |
| Calegory | Category | | | | | End | | |
| Item | Animal Co | ontrol | | 37.8149 | 97° | 37.814970 ° | | |
| пеш | | | -121.4147 | 74 ° | -121.415767° | | | |
| DWR ID | DWR_RD2089_02_s _ 2012_40 | | | | | | | |

Comment Code

A1: Exterminate rodents and backfill and compact or grout burrows.

Inspector Comment

Numerous burrows are on the landside slope adjacent to the hay storage area. Deep burrows are in the crown and landside ramp.

| LM Start | 0.85 | Rating ** | U | Issue No. | 40 (cont) |
|----------|------|--------------|----|------------|-----------|
| LM End | 0.90 | Issue Type + | Ma | Location * | LS |

Photo 1 of 3: SP_2019_RD2089_317_40_20190313_00038.jpg



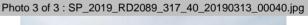
View of deep vertical burrow in ramp on landside of levee. 05/24/2011

Photo 2 of 3: SP_2019_RD2089_317_40_20190313_00039.jpg



View of deep vertical burrow in levee crown. 05/24/2011

| LM Start | 0.85 | Rating ** | U | Issue No. | 40 (cont) |
|----------|------|--------------|----|------------|-----------|
| LM End | 0.90 | Issue Type + | Ma | Location * | LS |





View of the multiple rodent holes on the landside levee slope.

| * Location | ** Rating | | + Issue Type |
|--|--|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 0.86 | Rating ** | U | Issue No. | | 36 | | | |
|----------------------------------|-----------|--------------|----------|---------------|-------------|---------------|--|--|--|
| LM End | 1.34 | Issue Type + | Ма | Location * | | CR | | | |
| Category | evee | GPS La | atitud | e/Longitude | | | | | |
| Calegory | | | | Start | | End | | | |
| Item | n | | 37.8150 | 32° | 37.819556 ° | | | | |
| item | | | | -121.414982 ° | | -121.419621 ° | | | |
| DWR ID DWR_RD2089_02_s _ 2019_36 | | | | | | | | | |
| | | Comn | nent Cod | le | | | | | |
| V9 : Keep | the crown | roadway free | of veget | ation. | | | | | |
| | | | | | | | | | |
| | | Inspecto | or Comm | nent | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |



View of vegetation on levee crown. (Spring 2019)

| LM Start | 0.91 | Rating ** | A/W | Issue No. | | 59 | |
|----------|--------------|-------------------|------|------------|------------------------|---------------|--|
| LM End | 0.93 | Issue Type + | Ob | Location * | | | |
| Category | Supplemental | | | | GPS Latitude/Longitude | | |
| Category | Category | | | Start | | End | |
| Item | 2017 Stor | 2017 Storm Damage | | | | 37.814890 ° | |
| пеш | | | | -121.41588 | 80° | -121.416330 ° | |
| DWR ID | DWR_RD2 | 089_02_f _ 201 | 7_59 | | | | |

Comment Code

Inspector Comment

Levee Evaluation Comments Description:

Site ID No:110

Site Designation:335-3 Repair Type: Seepage

Rating: Field Date: Notes: No Photos

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 0.91 | Rating ** | М | Issue No. | | 22 | |
|----------------------------------|-----------|--------------|----|------------------------|-----|-------------|--|
| LM End | 0.91 | Issue Type + | Ма | Location * | | LS | |
| Category Earthen Levee | | | | GPS Latitude/Longitude | | | |
| Calegory | Category | | | Start | | End | |
| Item | Animal Co | 37.81490 | 3° | 37.814903 | | | |
| пеш | | | | -121.41588 | 7 ° | -121.415887 | |
| DWR ID DWR_RD2089_02_s _ 2015_22 | | | | | | | |

Comment Code

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

No Photos

Rating ** Issue No. LM Start 0.94 41 0.94 Issue Type + Ma Location * WS LM End Earthen Levee GPS Latitude/Longitude Category End Encroachments 37.814940° 37.814940° Item -121.416499 ° -121.416499 DWR_RD2089_02_s _ 2012_41 DWR ID

Comment Code

PI: Pipe

Inspector Comment

Debris/CMP are on levee slope and needs to be removed.



View of old CMP left on waterside levee slope, needs to be removed. 05/24/2011

| LM Start | 0.95 | Rating ** | U | Issue No. | | 5 | |
|---------------------------------|------------------------|--------------|------------|------------|-------------|-----------|--|
| LM End | 0.95 | Issue Type + | Ма | Location * | | LS | |
| Category | GPS Latitude/Longitude | | | | | | |
| Calegory | | | | Start | | End | |
| Item | Animal Co | ontrol | | 37.81491 | 5° | 37.814915 | |
| item | | | -121.41660 |)6 ° | -121.416606 | | |
| DWR ID DWR_RD2089_02_s _ 2014_5 | | | | | | | |

Comment Code A1: Exterminate rodents and backfill and compact or grout burrows.

Inspector Comment



View of the rodent holes on the landside levee slope.

Location LS : Land Side N/A: Not Applicable WS: Water Side CR : Crown

Rating : Acceptable : Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated C : Corrected

A/W : Acceptable but Monitor & Maintain

+ Issue Type Ma: Maintenance Deficiency Ob: Design & System Obsolescence

En: Enforcement

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 1.00 | Rating ** | U | Issue No. | | 12 | | | |
|----------------------------------|-----------|--------------|-------|--------------|-----|---------------|--|--|--|
| LM End | 1.00 | Issue Type + | Ma | Location * | CR | | | | |
| Category | .evee | GPS La | titud | le/Longitude | | | | | |
| Calegory | Calegory | | | | | End | | | |
| Item | Animal Co | ontrol | | 37.81518 | 32° | 37.815182 ° | | | |
| item | | | | -121.4174 | 39° | -121.417439 ° | | | |
| DWR ID DWR_RD2089_02_f _ 2014_12 | | | | | | | | | |
| | | | | | | | | | |

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

| LM Start | 1.00 | Rating ** | U | Issue No. | 12 (cont) |
|----------|------|--------------|----|------------|-----------|
| LM End | 1.00 | Issue Type + | Ma | Location * | CR |

Photo 1 of 2: SP_2019_RD2089_317_12_20190313_00013.jpg



View of several large rodent holes on the levee crown.

Photo 2 of 2: SP_2019_RD2089_317_12_20190313_00014.jpg



View of several rodent burrows on landside levee hinge and crown.

| LM Start | 1.05 | Rating ** | N | Issue No. | | 29 | |
|----------------------------------|------------|--------------|--------|--------------|------|---------------|--|
| LM End | 1.05 | Issue Type + | Ma | Location * | WS | | |
| Category | evee | GPS La | atitud | le/Longitude | | | |
| Calegory | | | | Start | | End | |
| Item | Trim / Thi | n Trees | | 37.8156 | 29° | 37.815629° | |
| пеш | | | | -121.4181 | 33 ° | -121.418133 ° | |
| DWR ID DWR_RD2089_02_s _ 2012_29 | | | | | | | |
| Comment Code | | | | | | | |

T5: Tree stumps.

Inspector Comment

Location of a reported 14" diameter stump but could not verify as the area is overgrown with high weeds.

Photo 1 of 1: SP_2019_RD2089_317_29_20190313_00031.jpg



View of tree stump left after vegetation and tree removal.

| * Location | | ** Rating | | + Issue Type |
|-------------------|-------------------|--------------------------|---|-----------------------------------|
| LS: Land Side N/A | A: Not Applicable | A : Acceptable | N : Not Inspected/Rated | Ma : Maintenance Deficiency |
| WS: Water Side | | M : Minimally Acceptable | C : Corrected | Ob : Design & System Obsolescence |
| CR : Crown | | U : Unacceptable | A/W : Acceptable but Monitor & Maintain | En: Enforcement |

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 1.08 | Rating ** | М | Issue No. | 17 | | | |
|-------------------|---|----------------|----------|--------------|--------|--------------|--|--|
| LM End | 1.08 | Issue Type + | Ма | Location * | WS | | | |
| Category | Earthen L | evee | | GPS La | atitud | e/Longitude | | |
| Calegory | | | | Start | | End | | |
| Item | Encroach | ments | | 37.8160 | 25° | 37.816025° | | |
| пеш | | | | -121.418544° | | -121.418544° | | |
| DWR ID | DWR_RD2 | 089_02_s _ 201 | 2_17 | | | | | |
| | | Comn | nent Cod | le | | | | |
| DE : Debri | S | | | | | | | |
| | | | | | | | | |
| Inspector Comment | | | | | | | | |
| Water tank | Water tanks disposed of on levee are obstructive. | | | | | | | |

Photo 1 of 1: SP_2019_RD2089_317_17_20190313_00019.jpg



View of water tanks disposed on waterside slope.

| LM Start | 1.12 | Rating ** | М | Issue No. | 30 | | | |
|----------------------------------|-----------|--------------|-------|--------------|------|---------------|--|--|
| LM End | 1.12 | Issue Type + | Ma | Location * | WS | | | |
| Category | evee | GPS La | titud | le/Longitude | | | | |
| Calegory | | | | Start | | End | | |
| Item | Vegetatio | n | | 37.8165° | 14° | 37.816514° | | |
| пеш | | | | -121.41894 | 18 ° | -121.418948 ° | | |
| DWR ID DWR_RD2089_02_s _ 2012_30 | | | | | | | | |
| Comment Code | | | | | | | | |

V4 : Elderberries are blocking visibility and flood fight capability.

Inspector Comment

No Photos

| LM Start | 1.18 | Rating ** | М | Issue No. | | 6 | | |
|------------------------|---|----------------|-----------|------------|---------------|------------|--|--|
| LM End | 1.18 | Issue Type + | Ma | Location * | LS | | | |
| Category Earthen Levee | | | GPS La | atitud | le/Longitude | | | |
| | | | Start | | End | | | |
| Item | Animal Co | ontrol | 37.8172 | 71 ° | 37.817271 ° | | | |
| пеш | | | -121.4193 | 80° | -121.419380 ° | | | |
| DWR ID | DWR_RD2 | 089_02_s _ 201 | 4_6 | | | | | |
| | | Comn | nent Coc | le | | | | |
| A1 : Exterr | A1 : Exterminate rodents and backfill and compact or grout burrows. | | | | | t burrows. | | |
| | | | | | | | | |
| | Inspector Comment | | | | | | | |



View of the large rodent hole on the landside levee slope.

| * Location ** | ** Rating | | + Issue Type |
|--|--|--|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain | Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 1.24 | Rating ** | U | Issue No. | 31 | | |
|--------------|----------------------------------|------------------------|----|------------|------|---------------|--|
| LM End | 1.24 | Issue Type + | Ма | Location * | WS | | |
| Category | evee | GPS Latitude/Longitude | | | | | |
| Calegory | | | | Start | | End | |
| Item | Vegetatio | n | | 37.81805 | 51 ° | 37.818051 ° | |
| item | | | | -121.41974 | ı3° | -121.419743 ° | |
| DWR ID | DWR ID DWR_RD2089_02_s _ 2012_31 | | | | | | |
| Comment Code | | | | | | | |

V4: Elderberries are blocking visibility and flood fight capability.

Inspector Comment

Trim back the shrub to allow access and visibility.

Photo 1 of 1: SP_2019_RD2089_317_37_20190313_00037.jpg

No Photos



View of the prunings on the landside levee slope.

| LM Start | 1.24 | Rating ** | М | Issue No. | | 37 | |
|----------------------------------|------|--------------|------------------------|---------------|------------|--------------|--|
| LM End | 1.24 | Issue Type + | En | Location * LS | | LS | |
| Category Earthen Levee | | | GPS Latitude/Longitude | | | | |
| Category | | | Start | | End | | |
| ltem Encroachments | | | 37.8180 | 97° | 37.818097° | | |
| item | | | | -121.419709 ° | | -121.419709° | |
| DWR ID DWR_RD2089_02_s _ 2016_37 | | | | | | | |
| | | Comn | nent Cod | le | | | |
| PR : Prunii | ngs | | | | | | |
| | | | | | | | |
| | | Inspecto | or Comm | nent | | | |
| | | | | | | | |
| | | | | | | | |

| LM Start | 1.24 | Rating ** | U | Issue No. | | 28 | | |
|----------------|---------------------------|--------------|---------|------------------------|-------------|---------------|--|--|
| LM End | 1.24 | Issue Type + | Ma | Location * | LS | | | |
| Category | Earthen L | evee | | GPS Latitude/Longitude | | | | |
| Calegory | | | | Start | | End | | |
| Animal Control | | | 37.8181 | 12° | 37.818112 ° | | | |
| item | | | | -121.4197 | 20° | -121.419720 ° | | |
| DWR ID | DWR_RD2089_02_f _ 2016_28 | | | | | | | |
| Comment Code | | | | | | | | |

A1: Exterminate rodents and backfill and compact or grout burrows.

Inspector Comment



View of the rodent burrow in the landside levee slope.

| Location | |
|----------------|---------------------|
| LS : Land Side | N/A: Not Applicable |
| WS: Water Side | |
| CR · Crown | |

* Rating
A: Acceptable
M: Minimally Acceptable
U: Unacceptable

N : Not Inspected/Rated C : Corrected + Issue Type

Ma : Maintenance Deficiency

Ob : Design & System Obsolescence

En : Enforcement

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 1.25 | Rating ** | U | Issue No. | | 23 |
|------------------------|---------------------------|--------------|----|------------------------|------|---------------|
| LM End | 1.31 | Issue Type + | En | Location * | | LS |
| Category Earthen Levee | | | | GPS Latitude/Longitude | | |
| Calegory | | | | Start | | End |
| Item | Encroachments | | | 37.8182 | 77° | 37.819040° |
| item | | | | -121.4197 | 25 ° | -121.419760 ° |
| DWR ID | DWR_RD2089_02_s _ 2012_23 | | | | | |

Comment Code

BU: Building

Inspector Comment

Buildings and equipment encroach within 10-ft of landside toe. The boat was removed.

Photo 1 of 1: SP_2019_RD2089_317_23_20190313_00024.jpg



View of buildings and patio decks within 10-ft of the levee slope. Fall

| LM Start | 1.26 | Rating ** | U | Issue No. | | 33 | |
|---------------|---------------------------|-------------------|----|------------------------|-----|---------------|--|
| LM End | 1.26 | Issue Type + | Ма | Location * | | CR | |
| Earthen Levee | | | | GPS Latitude/Longitude | | | |
| Category | | | | Start | | End | |
| Itom | Trim / Thi | Trim / Thin Trees | | | 08° | 37.818408 ° | |
| Item | | | | -121.4197 | 38° | -121.419738 ° | |
| DWR ID | DWR_RD2089_02_f _ 2018_33 | | | | | | |
| | | | | | | | |

Comment Code T4: Trim trees over roadway to at least 12 feet above ground level.

Inspector Comment

Tree on landward slope is overhanging crown of levee.

Photo 1 of 1: SP 2019 RD2089 317 33 20190313 00032.jpg



Looking west at trees overhanging crown of levee. (Fall 2018)

Photo 1 of 1: SP_2019_RD2089_317_57_20190313_00064.jpg

| LM Start | 1.27 | Rating ** | М | Issue No. | | 57 | | | |
|------------------------|---------------------------|--------------|----|------------------------|------|--------------|--|--|--|
| LM End | 1.27 | Issue Type + | En | Location * | CR | | | | |
| Category Earthen Levee | | | | GPS Latitude/Longitude | | | | | |
| Category | | | | | | End | | | |
| Item | Vegetatio | n | | 37.81849 | 99° | 37.818499 ° | | | |
| Item | | | | -121.41975 | 54 ° | -121.419754° | | | |
| DWR ID | DWR_RD2089_02_f _ 2013_57 | | | | | | | | |
| | Comment Code | | | | | | | | |

V6: Landscaping

Inspector Comment

Remove cactus from levee crown.





View of the cactus on the crown at the landside levee shoulder.

| * Location | ** Rating | | + Issue Type |
|--|--|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 1.29 | Rating ** | U | Issue No. | | 19 | | | |
|------------------------|---|--------------|----------|---------------|-------------|---------------|--|--|--|
| LM End | 1.29 | Issue Type + | Ma | Location * | n* LS | | | | |
| Category Earthen Levee | | | GPS La | atitud | e/Longitude | | | | |
| Calegory | | Start | | End | | | | | |
| Item Animal Control | | | 37.8187 | 40° | 37.818740 ° | | | | |
| | | | | -121.419759 ° | | -121.419759 ° | | | |
| DWR ID | DWR ID DWR_RD2089_02_f _ 2016_19 | | | | | | | | |
| | | Comn | nent Cod | le | | | | | |
| | A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | | | | |
| Inspector Comment | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Photo 1 of 1: SP_2019_RD2089_317_19_20190313_00021.jpg



View of the rodent burrow in the landside levee slope.

| LM Start | 1.29 | Rating ** | A/W | Issue No. | | 32 | |
|----------------------------------|-----------|--------------|-----|------------|-------|---------------|--|
| LM End | 1.29 | Issue Type + | Ma | Location * | WS | | |
| Category Earthen Levee | | | | GPS La | tituc | le/Longitude | |
| Calegory | | | | Start | | End | |
| Item | Vegetatio | Vegetation | | | 29° | 37.818829 ° | |
| item | | | | -121.41977 | 76° | -121.419776 ° | |
| DWR ID DWR_RD2089_02_s _ 2012_32 | | | | | | | |
| | | | | | | | |

Comment Code

V4: Elderberries are blocking visibility and flood fight capability.

Inspector Comment

No Photos

| LM Start | 1.29 | Rating ** | N | Issue No. | | 18 | | | |
|------------------------|--------------|-----------------|--------|-------------|--------------|-----------|---|--|--|
| LM End | 1.29 | Issue Type + | Ma | Location * | | LS | | | |
| Category Earthen Levee | | | GPS La | atitud | le/Longitude | | | | |
| Category | | | | Start | | End | | | |
| Item | Trim / Thi | im / Thin Trees | | | 43° | 37.818843 | 0 | | |
| пеш | | -121.4197 | 62 ° | -121.419762 | 0 | | | | |
| DWR ID | DWR_RD2 | 089_02_f _ 201 | 6_18 | | | | | | |
| | Comment Code | | | | | | | | |
| T5 : Tree s | stumps. | | | | | | | | |

Inspector Comment

Photo 1 of 1: SP_2019_RD2089_317_18_20190313_00020.jpg

View of the tree stump from the levee crown.

| * Location | | ** Rating | | + Issue Type | | |
|------------|-----------------------------------|--------------------------|---|-----------------------------------|--|--|
| | LS: Land Side N/A: Not Applicable | A : Acceptable | N : Not Inspected/Rated | Ma : Maintenance Deficiency | | |
| | WS: Water Side | M : Minimally Acceptable | C : Corrected | Ob : Design & System Obsolescence | | |
| | CR : Crown | U : Unacceptable | A/W : Acceptable but Monitor & Maintain | En : Enforcement | | |

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 1.30 | Rating ** | U | Issue No. | | 16 | | |
|-------------------|----------------------------------|---------------|------------|------------------------|------|---------------|--|--|
| LM End | 1.30 | Issue Type + | Ma | Location * | LS | | | |
| Category | Earthen Levee | | | GPS Latitude/Longitude | | | | |
| Category | | | | Start | | End | | |
| Item | Animal Control | | | 37.818987° | | 37.818987° | | |
| пеш | | | | -121.419767 ° | | -121.419767 ° | | |
| DWR ID | DWR ID DWR_RD2089_02_s _ 2015_16 | | | | | | | |
| Comment Code | | | | | | | | |
| A1 : Exterr | minate rod | ents and back | fill and c | compact or | grou | it burrows. | | |
| | | | | | | | | |
| Inspector Comment | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |



View of the rodent burrow in the landside levee slope.

| LM Start | 1.30 | Rating ** | М | Issue No. | 8 | | |
|------------------|--------------------------|--------------|---------------------|------------|------|---------------|--|
| LM End | 1.34 | Issue Type + | En | Location * | LS | | |
| Category | Earthen L | evee | e GPS Latitude/Long | | | le/Longitude | |
| Calegory | | | | Start | | End | |
| Item | Vegetatio | egetation // | | | 94° | 37.819556 ° | |
| пеш | | | | | 62 ° | -121.419621 ° | |
| DWR ID | DWR_RD2089_02_f _ 2016_8 | | | | | | |
| Comment Code | | | | | | | |
| V6 : Landscaping | | | | | | | |
| | | | | | | | |

Inspector Comment

| LM Start | 1.30 | Rating ** | М | Issue No. | 8 (cont) |
|----------|------|--------------|----|------------|----------|
| LM End | 1.34 | Issue Type + | En | Location * | LS |

Photo 1 of 2: SP_2019_RD2089_317_8_20190313_00008.jpg

View of the ice plant landscaping on the landside levee slope, looking downstream.

Photo 2 of 2: SP_2019_RD2089_317_8_20190313_00009.jpg



View of the ice plant and irrigation line on the landside levee slope, looking upstream.

| * Location | ** Rating | | + Issue Type | |
|--|--|---|--|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement | |

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 04/04/2019 04/04/2019 | Alberto De Leon |

| LM Start | 1.33 | Rating ** | U | Issue No. | | 11 | | |
|---|---------------|--------------|---------------|------------------------|--|-------------|--|--|
| LM End | 1.33 | Issue Type + | Ma | Location * | | LS | | |
| Category | Earthen Levee | | | GPS Latitude/Longitude | | | | |
| Calegory | | | | Start | | End | | |
| Item | Animal Co | ontrol | | 37.819371° | | 37.819371 ° | | |
| пеш | -121.419774° | | -121.419774 ° | | | | | |
| DWR ID DWR_RD2089_02_f _ 2014_11 | | | | | | | | |
| | Comment Code | | | | | | | |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | | | | |
| Inspector Comment | | | | | | | | |
| Some of the rodent hole openings have collapsed. | | | | | | | | |
| | | | | | | | | |



View of the multiple rodent burrows on the landside levee slope.